

# Product Change Notification (PCN)



**N° LFPCN240322**

Date: March 22<sup>nd</sup>, 2024

**Subject:** *PCN for PWS-D, PWS-E, PWS-D Flat, PWS-E Flat, Eco-Pac 1, Eco-Pac 2 and FO-B. Change of label format (Refer to the list of affected parts in ANNEX5)*

**Dear Valued Customer,**

Littelfuse would like to notify you about the change of delivery labels for the list of part numbers listed in (ANNEX 5 – list of affected part numbers), concerning Littelfuse products in PWS-D, PWS-E, PWS-D Flat, PWS-E Flat, Eco-Pac 1, Eco-Pac 2 and FO-B package.

One of our assembly houses moving to SAP ERP is aligning its products labeling types with other existing LF assembly locations for smoother Operations & Supply chain management.

Details of labelling change by type of package are displayed in Annexes 2 to 4.  
Refer to the list of part number to determine the changes relevant to the products you are using.

The change of label will be effective beginning from March 20<sup>th</sup>. Timeline details of labeling change is showed in Annex1 (Timeline).

Thank you very much.  
Best Regards,

Mirko Vogelmann  
Product Manager  
Medium Power Modules  
[mvogelmann@littelfuse.com](mailto:mvogelmann@littelfuse.com)

|                      |                                                                |
|----------------------|----------------------------------------------------------------|
| Contact Information: | Contact your local Littelfuse Sales Partner or Mirko Vogelmann |
|----------------------|----------------------------------------------------------------|

|                           |                                                                                                                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SUBJECT OF CHANGE:</b> | PWS-D, PWS-E, PWS-D Flat, PWS-E Flat, Eco-Pac 1, Eco-Pac 2 and FO-B<br>Change of module label to implement:<br>- 2D matrix with 49 digits (moving from 36 to 49 characters) where possible<br>- Littelfuse-IXYS logo |
| <b>PRODUCTS AFFECTED:</b> | See page 5 (ANNEX5)                                                                                                                                                                                                  |
| <b>REASON OF CHANGE:</b>  | Aligning product labeling types with other existing LF assembly locations for smoother operation and supply chain management                                                                                         |

# Product Change Notification (PCN)



N° LFPCN240322

## ANNEX1: Timeline

|                                          | PWS-D,<br>PWS-E | PWS-D Flat,<br>PWS-E Flat   | Eco-Pac 1, Eco-Pac 2,<br>FO-B |
|------------------------------------------|-----------------|-----------------------------|-------------------------------|
| New Ixys-Littelfuse logo                 | March 20th      | End of May                  | End of June                   |
| 2D matrix with 49 characters             | March 20th      | March 20th                  | March 20th                    |
| 2D matrix printed on the module label    | March 20th      | Feasibility to be confirmed | Non Applicable                |
| 2D matrix printed on the inner box label | March 20th      | March 20th                  | March 20th                    |
| Master box label                         | Unchanged       | Unchanged                   | Unchanged                     |

## ANNEX2: Eco-Pac 1, Eco-Pac 2, FO-B

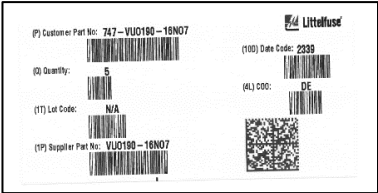
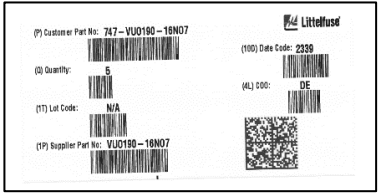
| DESCRIPTION OF CHANGE:   | CURRENT LABELLING                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NEW LABELLING            | GAP                                |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------|--------------------|------------------|--------------------|---------------|--------------------|------------|------------|----------------------------------------------|--------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------|--------------------|------------------|--------------------|---------------|--------------------|------------|------------|----------------------------------|--------------------|-----------------------------------------|--------------------------------------------------|
| ■ Marking (on parts)     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| • Labelling              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          | Company Logo                       |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| • Company Logo           | IXYS Logo<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Littelfuse IXYS Logo<br> | Company Logo effective end of June |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| ■ Labelling (on packing) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| • Inner Box              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          | No change                          |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| • Master/Outer Box       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          | No change                          |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| • 2D Matrix              | <div>36 characters</div> <table><tr><td>1st to 19th digit</td><td>Official product part number</td></tr><tr><td>20th to 23rd digit</td><td>Date Code (YYWW)</td></tr><tr><td>24th to 25th digit</td><td>Assembly line</td></tr><tr><td>26th to 31st digit</td><td>Lot number</td></tr><tr><td>32nd digit</td><td>Split lot / extra digit for future reference</td></tr><tr><td>33rd to 36th digit</td><td>Individual module number within one lot</td></tr></table> | 1st to 19th digit        | Official product part number       | 20th to 23rd digit | Date Code (YYWW) | 24th to 25th digit | Assembly line | 26th to 31st digit | Lot number | 32nd digit | Split lot / extra digit for future reference | 33rd to 36th digit | Individual module number within one lot | <div>49 characters</div> <table><tr><td>1st to 25th digit</td><td>Official product part number</td></tr><tr><td>26th to 31st digit</td><td>Date code (YYWW)</td></tr><tr><td>32nd to 33rd digit</td><td>Assembly Line</td></tr><tr><td>34th to 43rd digit</td><td>Lot Number</td></tr><tr><td>44th digit</td><td>Extra digit for future reference</td></tr><tr><td>45th to 49th digit</td><td>Individual Module number within one lot</td></tr></table> | 1st to 25th digit | Official product part number | 26th to 31st digit | Date code (YYWW) | 32nd to 33rd digit | Assembly Line | 34th to 43rd digit | Lot Number | 44th digit | Extra digit for future reference | 45th to 49th digit | Individual Module number within one lot | 2D matrix digits moving from 36 to 49 characters |
| 1st to 19th digit        | Official product part number                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 20th to 23rd digit       | Date Code (YYWW)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 24th to 25th digit       | Assembly line                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 26th to 31st digit       | Lot number                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 32nd digit               | Split lot / extra digit for future reference                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 33rd to 36th digit       | Individual module number within one lot                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 1st to 25th digit        | Official product part number                                                                                                                                                                                                                                                                                                                                                                                                                                        |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 26th to 31st digit       | Date code (YYWW)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 32nd to 33rd digit       | Assembly Line                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 34th to 43rd digit       | Lot Number                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 44th digit               | Extra digit for future reference                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 45th to 49th digit       | Individual Module number within one lot                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |                                    |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |

# Product Change Notification (PCN)



N° LFPCN240322

## ANNEX3: PWS-D, PWS-E

| DESCRIPTION OF CHANGE:   | CURRENT LABELLING                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NEW LABELLING                                                                                              | GAP                                              |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------|------------------|--------------------|---------------|--------------------|------------|------------|----------------------------------------------|--------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------|--------------------|------------------|--------------------|---------------|--------------------|------------|------------|----------------------------------|--------------------|-----------------------------------------|--------------------------------------------------------|
| ■ Marking (on parts)     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| • Labelling              |                                                                                                                                                                                                                                                                                                                                                                                       |                          | 2D matrix added<br>Company Logo                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| • Company Logo           | IXYS Logo<br>                                                                                                                                                                                                                                                                                                                                                                         | Littelfuse IXYS Logo<br> | Company Logo<br>effective March 20 <sup>th</sup> |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| • 2D Matrix              | 36 characters<br><table border="1"><tr><td>1st to 19th digit</td><td>Official product part number</td></tr><tr><td>20th to 23rd digit</td><td>Date Code (YYWW)</td></tr><tr><td>24th to 25th digit</td><td>Assembly line</td></tr><tr><td>26th to 31st digit</td><td>Lot number</td></tr><tr><td>32nd digit</td><td>Split lot / extra digit for future reference</td></tr><tr><td>33rd to 36th digit</td><td>Individual module number within one lot</td></tr></table> | 1st to 19th digit                                                                                          | Official product part number                     | 20th to 23rd digit | Date Code (YYWW) | 24th to 25th digit | Assembly line | 26th to 31st digit | Lot number | 32nd digit | Split lot / extra digit for future reference | 33rd to 36th digit | Individual module number within one lot | 49 characters<br><table border="1"><tr><td>1st to 25th digit</td><td>Official product part number</td></tr><tr><td>26th to 31st digit</td><td>Date code (YYWW)</td></tr><tr><td>32nd to 33rd digit</td><td>Assembly Line</td></tr><tr><td>34th to 43rd digit</td><td>Lot Number</td></tr><tr><td>44th digit</td><td>Extra digit for future reference</td></tr><tr><td>45th to 49th digit</td><td>Individual Module number within one lot</td></tr></table> | 1st to 25th digit | Official product part number | 26th to 31st digit | Date code (YYWW) | 32nd to 33rd digit | Assembly Line | 34th to 43rd digit | Lot Number | 44th digit | Extra digit for future reference | 45th to 49th digit | Individual Module number within one lot | 2D matrix digits<br>moving from 36<br>to 49 characters |
| 1st to 19th digit        | Official product part number                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| 20th to 23rd digit       | Date Code (YYWW)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| 24th to 25th digit       | Assembly line                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| 26th to 31st digit       | Lot number                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| 32nd digit               | Split lot / extra digit for future reference                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| 33rd to 36th digit       | Individual module number within one lot                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| 1st to 25th digit        | Official product part number                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| 26th to 31st digit       | Date code (YYWW)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| 32nd to 33rd digit       | Assembly Line                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| 34th to 43rd digit       | Lot Number                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| 44th digit               | Extra digit for future reference                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| 45th to 49th digit       | Individual Module number within one lot                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| ■ Labelling (on packing) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                            |                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| • Inner Box              |                                                                                                                                                                                                                                                                                                                                                                                     |                        | No change                                        |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |
| • Master/Outer Box       |                                                                                                                                                                                                                                                                                                                                                                                     |                        | No change                                        |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                        |

# Product Change Notification (PCN)



N° LFPCN240322

## ANNEX4: PWS-D Flat, PWS-E Flat

| DESCRIPTION OF CHANGE:   | CURRENT LABELLING                                                                                                                                                                                                                                                                                                                                                                                                                                           | NEW LABELLING            | GAP                                                                        |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------|--------------------|------------------|--------------------|---------------|--------------------|------------|------------|----------------------------------------------|--------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------|--------------------|------------------|--------------------|---------------|--------------------|------------|------------|----------------------------------|--------------------|-----------------------------------------|--------------------------------------------------|
| ■ Marking (on parts)     |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| ● Labelling              |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          | 2D matrix added<br>*feasibility to be confirmed end of May<br>Company Logo |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| ● Company Logo           | IXYS Logo<br>                                                                                                                                                                                                                                                                                                                                                                                                                                               | Littelfuse IXYS Logo<br> | Company Logo effective end of May                                          |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| ● 2D Matrix              | 36 characters<br><table><tr><td>1st to 19th digit</td><td>Official product part number</td></tr><tr><td>20th to 23rd digit</td><td>Date Code (YYWW)</td></tr><tr><td>24th to 25th digit</td><td>Assembly line</td></tr><tr><td>26th to 31st digit</td><td>Lot number</td></tr><tr><td>32nd digit</td><td>Split lot / extra digit for future reference</td></tr><tr><td>33rd to 36th digit</td><td>Individual module number within one lot</td></tr></table> | 1st to 19th digit        | Official product part number                                               | 20th to 23rd digit | Date Code (YYWW) | 24th to 25th digit | Assembly line | 26th to 31st digit | Lot number | 32nd digit | Split lot / extra digit for future reference | 33rd to 36th digit | Individual module number within one lot | 49 characters<br><table><tr><td>1st to 25th digit</td><td>Official product part number</td></tr><tr><td>26th to 31st digit</td><td>Date code (YYWW)</td></tr><tr><td>32nd to 33rd digit</td><td>Assembly Line</td></tr><tr><td>34th to 43rd digit</td><td>Lot Number</td></tr><tr><td>44th digit</td><td>Extra digit for future reference</td></tr><tr><td>45th to 49th digit</td><td>Individual Module number within one lot</td></tr></table> | 1st to 25th digit | Official product part number | 26th to 31st digit | Date code (YYWW) | 32nd to 33rd digit | Assembly Line | 34th to 43rd digit | Lot Number | 44th digit | Extra digit for future reference | 45th to 49th digit | Individual Module number within one lot | 2D matrix digits moving from 36 to 49 characters |
| 1st to 19th digit        | Official product part number                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 20th to 23rd digit       | Date Code (YYWW)                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 24th to 25th digit       | Assembly line                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 26th to 31st digit       | Lot number                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 32nd digit               | Split lot / extra digit for future reference                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 33rd to 36th digit       | Individual module number within one lot                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 1st to 25th digit        | Official product part number                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 26th to 31st digit       | Date code (YYWW)                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 32nd to 33rd digit       | Assembly Line                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 34th to 43rd digit       | Lot Number                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 44th digit               | Extra digit for future reference                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| 45th to 49th digit       | Individual Module number within one lot                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| ■ Labelling (on packing) |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |                                                                            |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| ● Inner Box              |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          | No change                                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |
| ● Master/Outer Box       |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          | No change                                                                  |                    |                  |                    |               |                    |            |            |                                              |                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                              |                    |                  |                    |               |                    |            |            |                                  |                    |                                         |                                                  |

### ASSESSMENT:

- No influence in terms fit, form and function.
- No part number change.
- Data sheets remain unchanged.
- LF Qualification report available upon request.

# Product Change Notification (PCN)



N° LFPCN240322

## **ANNEX5: LIST OF AFFECTED POWER MODULES (See Note below):**

The following part numbers are affected by the change of label. Sorted by package type then alphabetical PN order.

Packages included: PWS-D, PWS-E, PWS-D Flat, PWS-E Flat, Eco-Pac 1, Eco-Pac 2 and FO-B

|    | SAP Material  | Description                         | Package  | Details |
|----|---------------|-------------------------------------|----------|---------|
| 1  | DSEI2X101-06P | Bipolar Module - Diode ECO-PAC2     | ECO-PAC2 | Annex2  |
| 2  | DSEI2X101-12P | Bipolar Module - Diode ECO-PAC2     | ECO-PAC2 | Annex2  |
| 3  | DSEI2X161-02P | Bipolar Module - Diode ECO-PAC2     | ECO-PAC2 | Annex2  |
| 4  | DSEI2X161-06P | Bipolar Module - Diode ECO-PAC2     | ECO-PAC2 | Annex2  |
| 5  | DSEI2X161-12P | Bipolar Module - Diode ECO-PAC2     | ECO-PAC2 | Annex2  |
| 6  | DSEI2X61-06P  | Bipolar Module - Diode ECO-PAC1     | ECO-PAC1 | Annex2  |
| 7  | DSEI2X61-12P  | Bipolar Module - Diode ECO-PAC1     | ECO-PAC1 | Annex2  |
| 8  | MMO110-12IO7  | Bipolar Module - Thyristor ECO-PAC1 | ECO-PAC1 | Annex2  |
| 9  | MMO110-14IO7  | Bipolar Module - Thyristor ECO-PAC1 | ECO-PAC1 | Annex2  |
| 10 | MMO140-12IO7  | Bipolar Module - Thyristor ECO-PAC1 | ECO-PAC1 | Annex2  |
| 11 | MMO140-16IO7  | Bipolar Module - Thyristor ECO-PAC1 | ECO-PAC1 | Annex2  |
| 12 | MMO175-12IO7  | Bipolar Module - Thyristor ECO-PAC1 | ECO-PAC1 | Annex2  |
| 13 | MMO175-16IO7  | Bipolar Module - Thyristor ECO-PAC1 | ECO-PAC1 | Annex2  |
| 14 | MMO230-12IO7  | Bipolar Module - Thyristor ECO-PAC2 | ECO-PAC2 | Annex2  |
| 15 | MMO230-16IO7  | Bipolar Module - Thyristor ECO-PAC2 | ECO-PAC2 | Annex2  |
| 16 | VBE100-06NO7  | Bipolar Module - Diode ECO-PAC2     | ECO-PAC2 | Annex2  |
| 17 | VBE100-12NO7  | Bipolar Module - Diode ECO-PAC2     | ECO-PAC2 | Annex2  |
| 18 | VBE17-06NO7   | Bipolar Module - Diode ECO-PAC1     | ECO-PAC1 | Annex2  |
| 19 | VBE17-12NO7   | Bipolar Module - Diode ECO-PAC1     | ECO-PAC1 | Annex2  |
| 20 | VBE26-06NO7   | Bipolar Module - Diode ECO-PAC1     | ECO-PAC1 | Annex2  |
| 21 | VBE26-12NO7   | Bipolar Module - Diode ECO-PAC1     | ECO-PAC1 | Annex2  |
| 22 | VBE55-06NO7   | Bipolar Module - Diode ECO-PAC1     | ECO-PAC1 | Annex2  |
| 23 | VBE55-12NO7   | Bipolar Module - Diode ECO-PAC1     | ECO-PAC1 | Annex2  |
| 24 | VBO130-08NO7  | Bipolar Module - Diode PWS-E        | PWS-E    | Annex3  |
| 25 | VBO130-12NO7  | Bipolar Module - Diode PWS-E        | PWS-E    | Annex3  |
| 26 | VBO130-16NO7  | Bipolar Module - Diode PWS-E        | PWS-E    | Annex3  |
| 27 | VBO130-18NO7  | Bipolar Module - Diode PWS-E        | PWS-E    | Annex3  |
| 28 | VBO160-08NO7  | Bipolar Module - Diode PWS-E        | PWS-E    | Annex3  |
| 29 | VBO160-12NO7  | Bipolar Module - Diode PWS-E        | PWS-E    | Annex3  |
| 30 | VBO160-16NO7  | Bipolar Module - Diode PWS-E        | PWS-E    | Annex3  |
| 31 | VBO160-18NO7  | Bipolar Module - Diode PWS-E        | PWS-E    | Annex3  |
| 32 | VBO21-08NO7   | Bipolar Module - Diode ECO-PAC1     | ECO-PAC1 | Annex2  |
| 33 | VBO21-12NO7   | Bipolar Module - Diode ECO-PAC1     | ECO-PAC1 | Annex2  |
| 34 | VBO22-08NO8   | Bipolar Module - Diode FO-B         | FO-B     | Annex2  |
| 35 | VBO22-12NO8   | Bipolar Module - Diode FO-B         | FO-B     | Annex2  |

# Product Change Notification (PCN)



N° LFPCN240322

|    | SAP Material | Description                              | Package  | Details |
|----|--------------|------------------------------------------|----------|---------|
| 36 | VBO22-16NO8  | Bipolar Module - Diode FO-B              | FO-B     | Annex2  |
| 37 | VBO22-18NO8  | Bipolar Module - Diode FO-B              | FO-B     | Annex2  |
| 38 | VBO36-08NO8  | Bipolar Module - Diode FO-B              | FO-B     | Annex2  |
| 39 | VBO36-12NO8  | Bipolar Module - Diode FO-B              | FO-B     | Annex2  |
| 40 | VBO36-16NO8  | Bipolar Module - Diode FO-B              | FO-B     | Annex2  |
| 41 | VBO36-18NO8  | Bipolar Module - Diode FO-B              | FO-B     | Annex2  |
| 42 | VBO52-08NO7  | Bipolar Module - Diode PWS-D             | PWS-D    | Annex3  |
| 43 | VBO52-12NO7  | Bipolar Module - Diode PWS-D             | PWS-D    | Annex3  |
| 44 | VBO52-16NO7  | Bipolar Module - Diode PWS-D             | PWS-D    | Annex3  |
| 45 | VBO52-18NO7  | Bipolar Module - Diode PWS-D             | PWS-D    | Annex3  |
| 46 | VBO54-08NO7  | Bipolar Module - Diode ECO-PAC1          | ECO-PAC1 | Annex2  |
| 47 | VBO54-12NO7  | Bipolar Module - Diode ECO-PAC1          | ECO-PAC1 | Annex2  |
| 48 | VBO54-16NO7  | Bipolar Module - Diode ECO-PAC1          | ECO-PAC1 | Annex2  |
| 49 | VBO68-08NO7  | Bipolar Module - Diode ECO-PAC1          | ECO-PAC1 | Annex2  |
| 50 | VBO68-12NO7  | Bipolar Module - Diode ECO-PAC1          | ECO-PAC1 | Annex2  |
| 51 | VBO68-16NO7  | Bipolar Module - Diode ECO-PAC1          | ECO-PAC1 | Annex2  |
| 52 | VBO72-08NO7  | Bipolar Module - Diode PWS-D             | PWS-D    | Annex3  |
| 53 | VBO72-12NO7  | Bipolar Module - Diode PWS-D             | PWS-D    | Annex3  |
| 54 | VBO72-16NO7  | Bipolar Module - Diode PWS-D             | PWS-D    | Annex3  |
| 55 | VBO72-18NO7  | Bipolar Module - Diode PWS-D             | PWS-D    | Annex3  |
| 56 | VBO78-08NO7  | Bipolar Module - Diode ECO-PAC2          | ECO-PAC2 | Annex2  |
| 57 | VBO78-12NO7  | Bipolar Module - Diode ECO-PAC2          | ECO-PAC2 | Annex2  |
| 58 | VBO78-16NO7  | Bipolar Module - Diode ECO-PAC2          | ECO-PAC2 | Annex2  |
| 59 | VBO88-08NO7  | Bipolar Module - Diode ECO-PAC2          | ECO-PAC2 | Annex2  |
| 60 | VBO88-12NO7  | Bipolar Module - Diode ECO-PAC2          | ECO-PAC2 | Annex2  |
| 61 | VBO88-16NO7  | Bipolar Module - Diode ECO-PAC2          | ECO-PAC2 | Annex2  |
| 62 | VCO132-12IO7 | Bipolar Module - Thyristor ECO-PAC2      | ECO-PAC2 | Annex2  |
| 63 | VCO132-16IO7 | Bipolar Module - Thyristor ECO-PAC2      | ECO-PAC2 | Annex2  |
| 64 | VCO180-12IO7 | Bipolar Module - Thyristor ECO-PAC2      | ECO-PAC2 | Annex2  |
| 65 | VCO180-16IO7 | Bipolar Module - Thyristor ECO-PAC2      | ECO-PAC2 | Annex2  |
| 66 | VGO36-16IO7  | Bipolar Module-Thyristor/Diode ECO-PAC1  | ECO-PAC1 | Annex2  |
| 67 | VHF25-08IO7  | Bipolar Module-Thyristor/Diode ECO-PAC1  | ECO-PAC1 | Annex2  |
| 68 | VHF25-12IO7  | Bipolar Module-Thyristor/Diode ECO-PAC1  | ECO-PAC1 | Annex2  |
| 69 | VTO39-08HO7  | Bipolar Module-Thyristor/Diode ECO-PAC1  | ECO-PAC1 | Annex2  |
| 70 | VTO39-12HO7  | Bipolar Module-Thyristor/Diode ECO-PAC1  | ECO-PAC1 | Annex2  |
| 71 | VUE130-06NO7 | Bipolar Module-Bridge Rectifier ECO-PAC2 | ECO-PAC2 | Annex2  |
| 72 | VUE130-12NO7 | Bipolar Module-Bridge Rectifier ECO-PAC2 | ECO-PAC2 | Annex2  |
| 73 | VUE22-06NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1 | Annex2  |
| 74 | VUE22-12NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1 | Annex2  |
| 75 | VUE35-06NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1 | Annex2  |



# Product Change Notification (PCN)



N° LFPCN240322

|     | SAP Material | Description                              | Package    | Details |
|-----|--------------|------------------------------------------|------------|---------|
| 76  | VUE35-12NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1   | Annex2  |
| 77  | VUE75-06NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1   | Annex2  |
| 78  | VUE75-12NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1   | Annex2  |
| 79  | VUO110-08NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E      | Annex3  |
| 80  | VUO110-12NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E      | Annex3  |
| 81  | VUO110-16NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E      | Annex3  |
| 82  | VUO110-18NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E      | Annex3  |
| 83  | VUO122-08NO7 | Bipolar Module-Bridge Rectifier ECO-PAC2 | ECO-PAC2   | Annex2  |
| 84  | VUO122-12NO7 | Bipolar Module-Bridge Rectifier ECO-PAC2 | ECO-PAC2   | Annex2  |
| 85  | VUO122-16NO7 | Bipolar Module-Bridge Rectifier ECO-PAC2 | ECO-PAC2   | Annex2  |
| 86  | VUO160-08NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E      | Annex3  |
| 87  | VUO160-12NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E      | Annex3  |
| 88  | VUO160-16NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E      | Annex3  |
| 89  | VUO160-18NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E      | Annex3  |
| 90  | VUO162-16NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E Flat | Annex4  |
| 91  | VUO190-08NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E      | Annex3  |
| 92  | VUO190-12NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E      | Annex3  |
| 93  | VUO190-16NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E      | Annex3  |
| 94  | VUO190-18NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E      | Annex3  |
| 95  | VUO192-16NO7 | BipolarModule-Bridge Rectifier PWS-E     | PWS-E Flat | Annex4  |
| 96  | VUO25-08NO8  | Bipolar Module-Bridge Rectifier FO-B     | FO-B       | Annex2  |
| 97  | VUO25-12NO8  | Bipolar Module-Bridge Rectifier FO-B     | FO-B       | Annex2  |
| 98  | VUO25-14NO8  | Bipolar Module-Bridge Rectifier FO-B     | FO-B       | Annex2  |
| 99  | VUO25-16NO8  | Bipolar Module-Bridge Rectifier FO-B     | FO-B       | Annex2  |
| 100 | VUO25-18NO8  | Bipolar Module-Bridge Rectifier FO-B     | FO-B       | Annex2  |
| 101 | VUO28-08NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1   | Annex2  |
| 102 | VUO28-12NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1   | Annex2  |
| 103 | VUO36-08NO8  | Bipolar Module-Bridge Rectifier FO-B     | FO-B       | Annex2  |
| 104 | VUO36-12NO8  | Bipolar Module-Bridge Rectifier FO-B     | FO-B       | Annex2  |
| 105 | VUO36-14NO8  | Bipolar Module-Bridge Rectifier FO-B     | FO-B       | Annex2  |
| 106 | VUO36-16NO8  | Bipolar Module-Bridge Rectifier FO-B     | FO-B       | Annex2  |
| 107 | VUO36-18NO8  | Bipolar Module-Bridge Rectifier FO-B     | FO-B       | Annex2  |
| 108 | VUO62-08NO7  | BipolarModule-Bridge Rectifier PWS-D     | PWS-D      | Annex3  |
| 109 | VUO62-12NO7  | BipolarModule-Bridge Rectifier PWS-D     | PWS-D      | Annex3  |
| 110 | VUO62-14NO7  | BipolarModule-Bridge Rectifier PWS-D     | PWS-D      | Annex3  |
| 111 | VUO62-16NO7  | BipolarModule-Bridge Rectifier PWS-D     | PWS-D      | Annex3  |
| 112 | VUO62-18NO7  | BipolarModule-Bridge Rectifier PWS-D     | PWS-D      | Annex3  |
| 113 | VUO64-16NO7  | BipolarModule-Bridge Rectifier PWS-D     | PWS-D Flat | Annex4  |
| 114 | VUO68-08NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1   | Annex2  |
| 115 | VUO68-12NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1   | Annex2  |

# Product Change Notification (PCN)



N° LFPCN240322

|     | SAP Material | Description                              | Package    | Details |
|-----|--------------|------------------------------------------|------------|---------|
| 116 | VUO68-16NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1   | Annex2  |
| 117 | VUO82-08NO7  | BipolarModule-Bridge Rectifier PWS-D     | PWS-D      | Annex3  |
| 118 | VUO82-12NO7  | BipolarModule-Bridge Rectifier PWS-D     | PWS-D      | Annex3  |
| 119 | VUO82-14NO7  | BipolarModule-Bridge Rectifier PWS-D     | PWS-D      | Annex3  |
| 120 | VUO82-16NO7  | BipolarModule-Bridge Rectifier PWS-D     | PWS-D      | Annex3  |
| 121 | VUO82-18NO7  | BipolarModule-Bridge Rectifier PWS-D     | PWS-D      | Annex3  |
| 122 | VUO84-16NO7  | BipolarModule-Bridge Rectifier PWS-D     | PWS-D Flat | Annex4  |
| 123 | VUO86-08NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1   | Annex2  |
| 124 | VUO86-12NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1   | Annex2  |
| 125 | VUO86-16NO7  | Bipolar Module-Bridge Rectifier ECO-PAC1 | ECO-PAC1   | Annex2  |
| 126 | VUO98-08NO7  | Bipolar Module-Bridge Rectifier ECO-PAC2 | ECO-PAC2   | Annex2  |
| 127 | VUO98-12NO7  | Bipolar Module-Bridge Rectifier ECO-PAC2 | ECO-PAC2   | Annex2  |
| 128 | VUO98-16NO7  | Bipolar Module-Bridge Rectifier ECO-PAC2 | ECO-PAC2   | Annex2  |
| 129 | VVZ110-12IO7 | BipolarModule-Thyristor/Diode PWS-E      | PWS-E      | Annex3  |
| 130 | VVZ175-12IO7 | BipolarModule-Thyristor/Diode PWS-E      | PWS-E      | Annex3  |
| 131 | VVZ175-16IO7 | BipolarModule-Thyristor/Diode PWS-E      | PWS-E      | Annex3  |
| 132 | VVZ39-08HO7  | Bipolar Module-Thyristor/Diode ECO-PAC1  | ECO-PAC1   | Annex2  |
| 133 | VVZ39-12HO7  | Bipolar Module-Thyristor/Diode ECO-PAC1  | ECO-PAC1   | Annex2  |
| 134 | VWO35-08HO7  | Bipolar Module - Thyristor ECO-PAC1      | ECO-PAC1   | Annex2  |
| 135 | VWO35-12HO7  | Bipolar Module - Thyristor ECO-PAC1      | ECO-PAC1   | Annex2  |

Customer Information: Forward-looking statements are intended to provide information about our expected future operations. These statements are not promises or guarantees, particularly with respect to any timelines provided in the schedule. All terms of delivery and rights to technical changes are subject to alteration by Littelfuse.