

BP-LFP-D

LiFePO4 battery packs (DIN rail)

- ✓ Long-life battery pack
- ✓ High reliability
- ✓ Safe lithium iron phosphate technology
- ✓ 100% free of lead and cadmium
- ✓ Extended temperature range
- ✓ High performance BMS system
- ✓ Advanced charging algorithms and cell balancing
- ✓ Battery relax mode for lifetime extension
- ✓ Integrated protection against deep discharge, over current, over voltage and short circuit
- ✓ Ruggedly constructed DIN rail version
- ✓ UN 38.3 transportation certification



NEW



Technical data	
Nominal capacitance	2500 mAh
Technology	LiFePO4 (Lithium iron phosphate)
Life cycles	>6000
Temperature	Operating: -20...+55 °C / Storage: -30...+55 °C
Communication	SMB

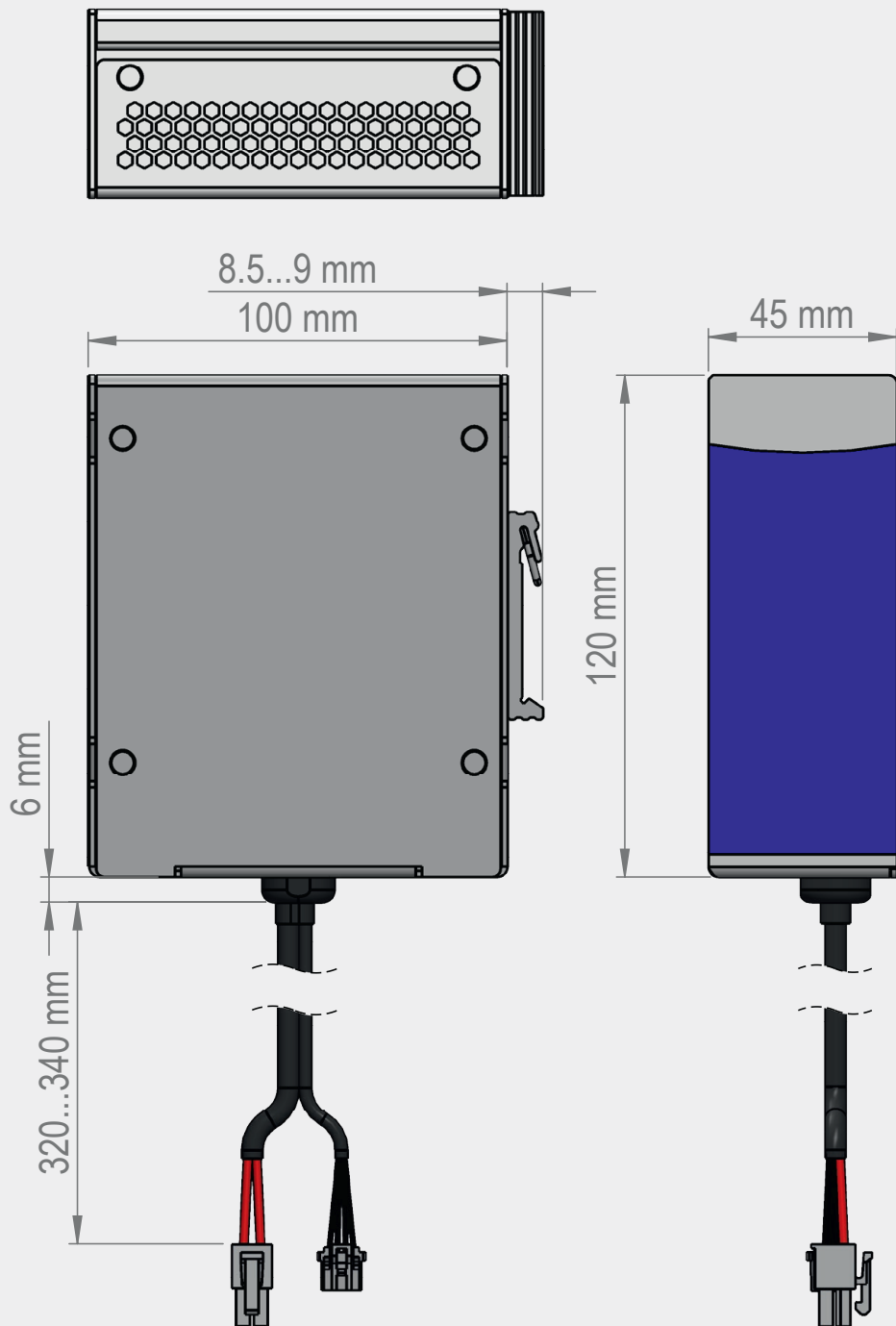
Product specific data		
P/N	BP-LFP-1025D	BP-LFP-1325D
UPS version	UPSI-1208D	UPSI-2406D
Nominal voltage	9.9 VDC	13.2 VDC
Number of used cells	3 cells à 3.3 V (serial)	4 cells à 3.3 V (serial)
Energy	25 Wh	33 Wh
ESR	45 mΩ	64 mΩ
Charge voltage	10.8V max.	14.4V max.
Charge current	4.5 A max.	4.5 A max.
Discharge current	15 A max.	15 A max.
Fuse	Littlefuse 1206, 25 A	Littlefuse 1206, 25 A
Dimensions (WxDxH)	45 x 100 x 120 mm ±0.5 mm	45 x 100 x 120 mm ±0.5 mm
Humidity	Operating: 10...90% RH, non-condensing Storage: 10...80% RH, non-condensing	Operating: 10...90% RH, non-condensing Storage: 10...80% RH, non-condensing
Weight (net)	~ 450 g	~ 535 g

Nominal backup time, measured at +21 °C			
	50 W	100 W	140 W
BP-LFP-1025D	~ 25 min	~ 12 min	-
BP-LFP-1325D	~ 33 min	~ 16 min	~ 12 min

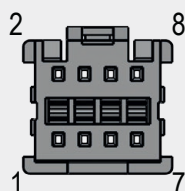
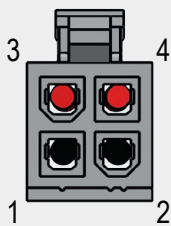
Back up time depends on battery capacitance, load and temperature.
At very high or low temperatures a reduction of backup time occurs.

Drawing BP-LFP-D

Tolerance ± 0.5 mm

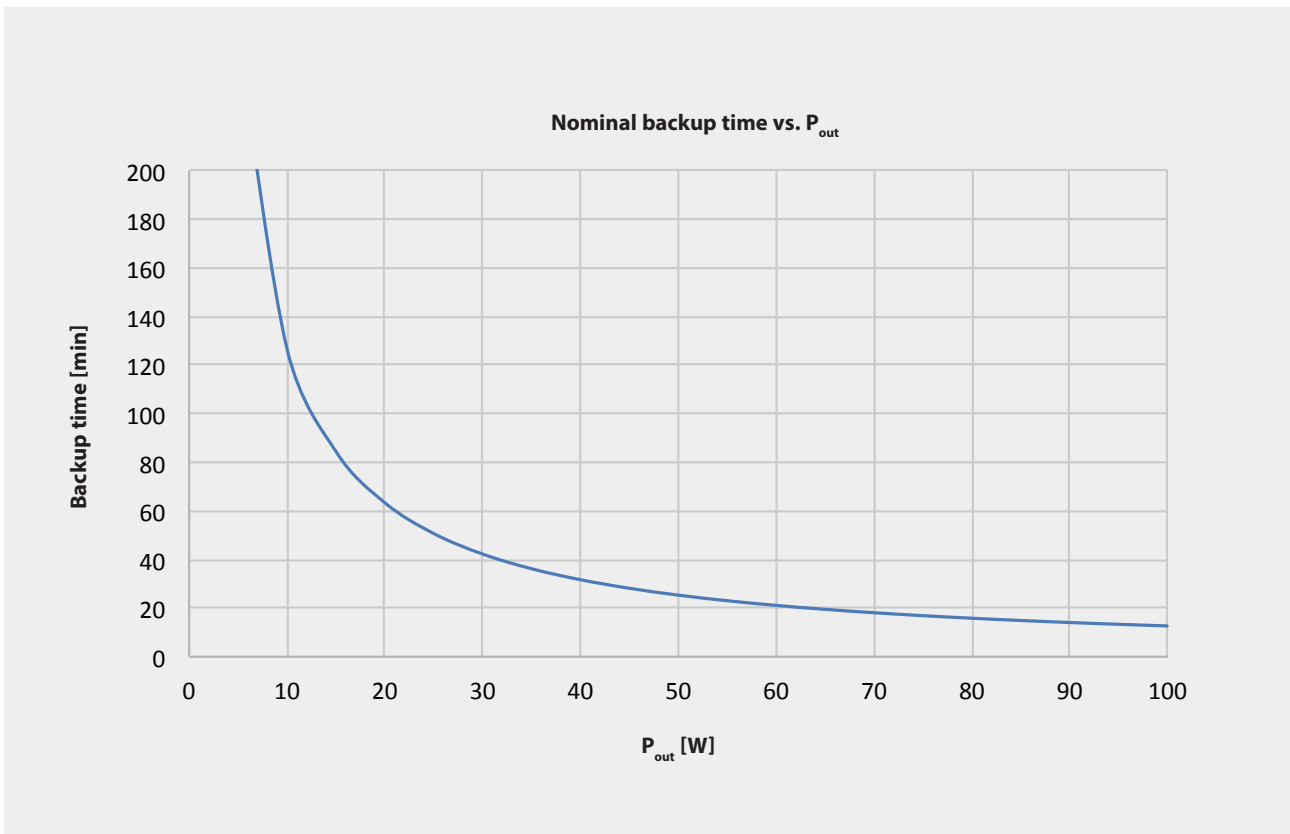


- 1 Bat - / GND
- 2 Bat - / GND
- 3 Bat +
- 4 Bat +

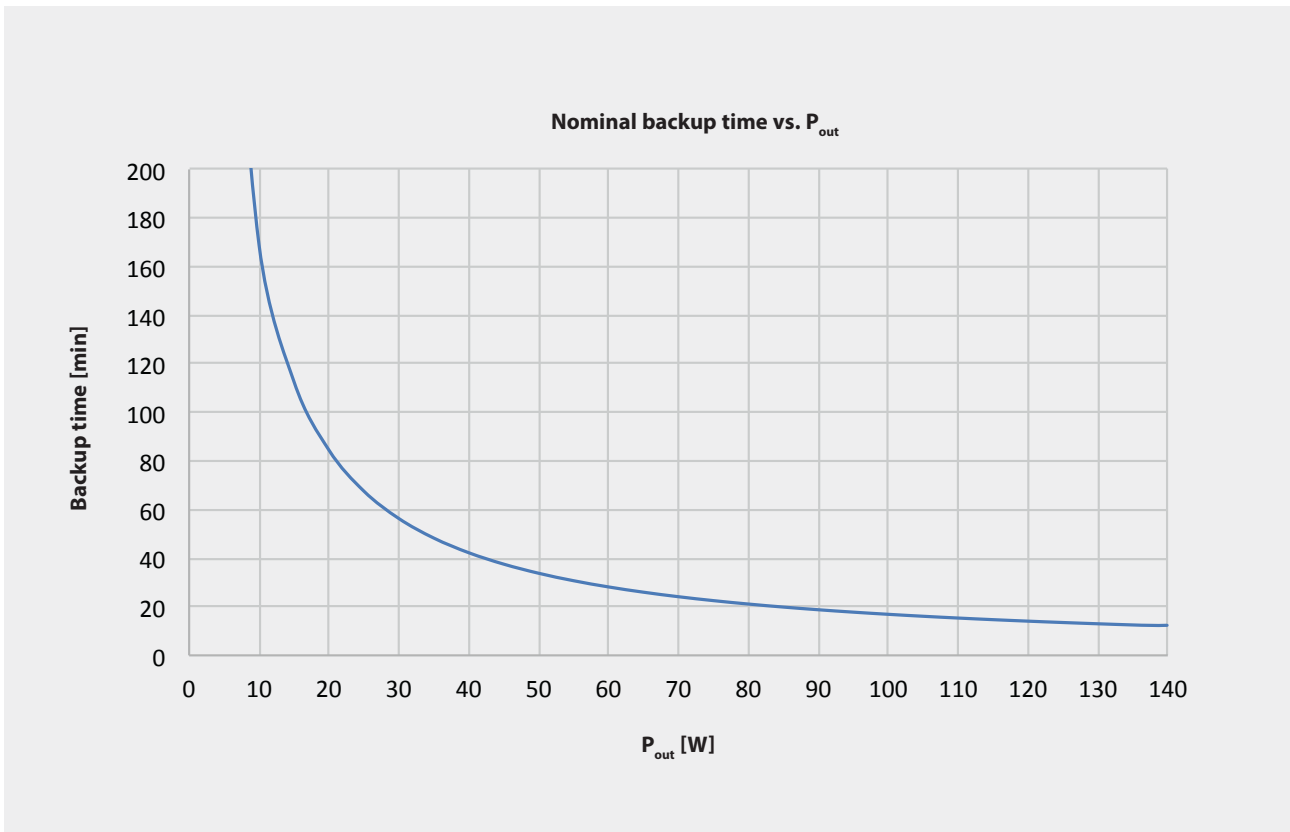


- 2 SMBC
- 4 SYBD
- 6 SYSPRES
- 8 SGND

Backup time BP-LFP-1025D

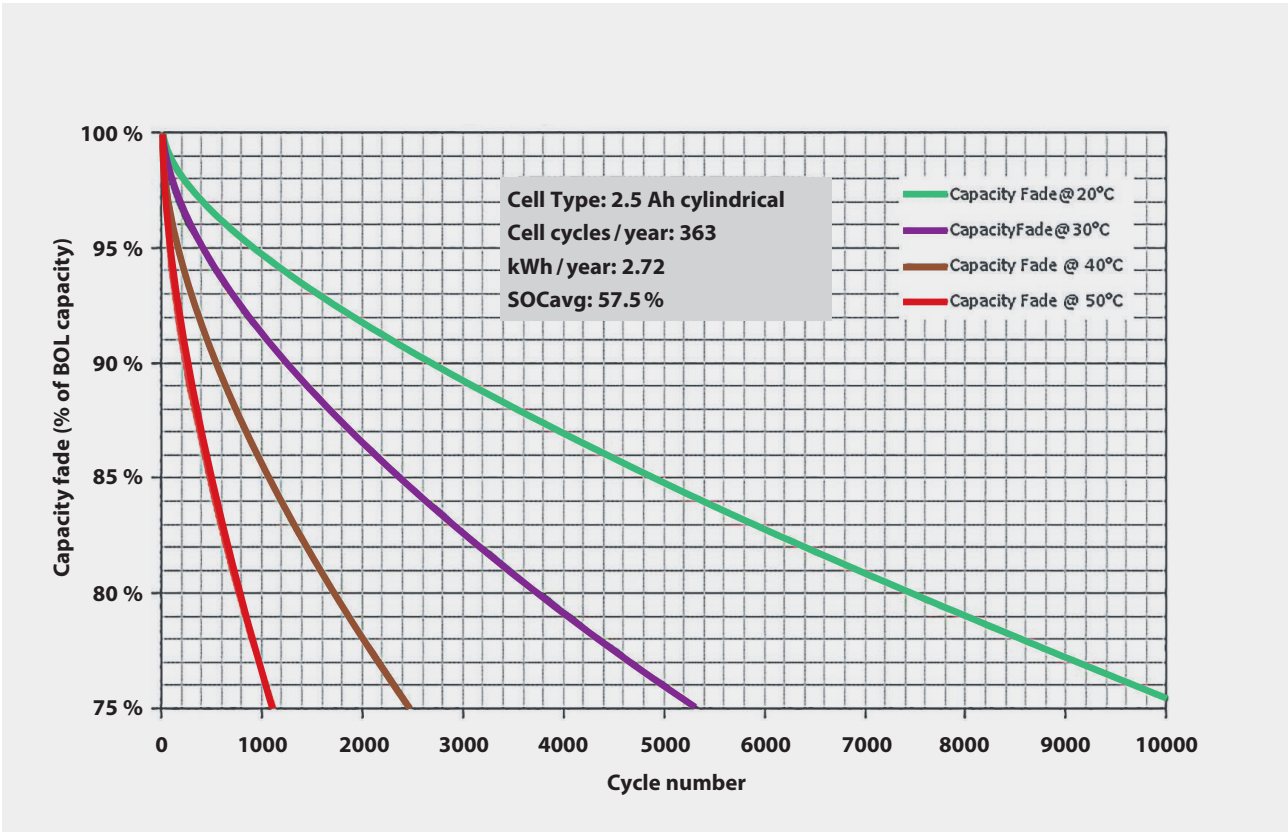


Backup time BP-LFP-1325D

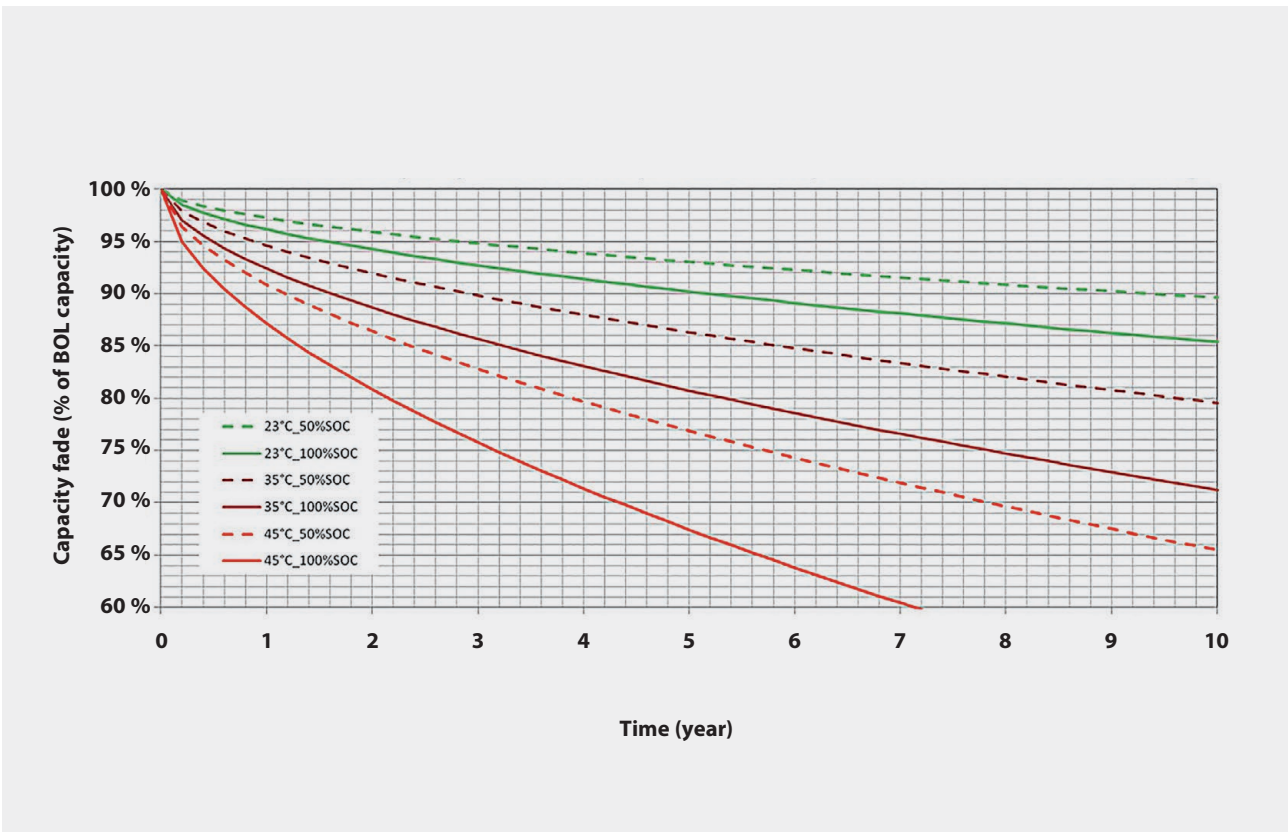


DC UPS

BP-LFP-D – Cycle life at various temperatures



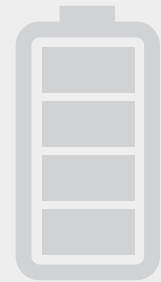
BP-LFP-D – Calendar life at various temperatures



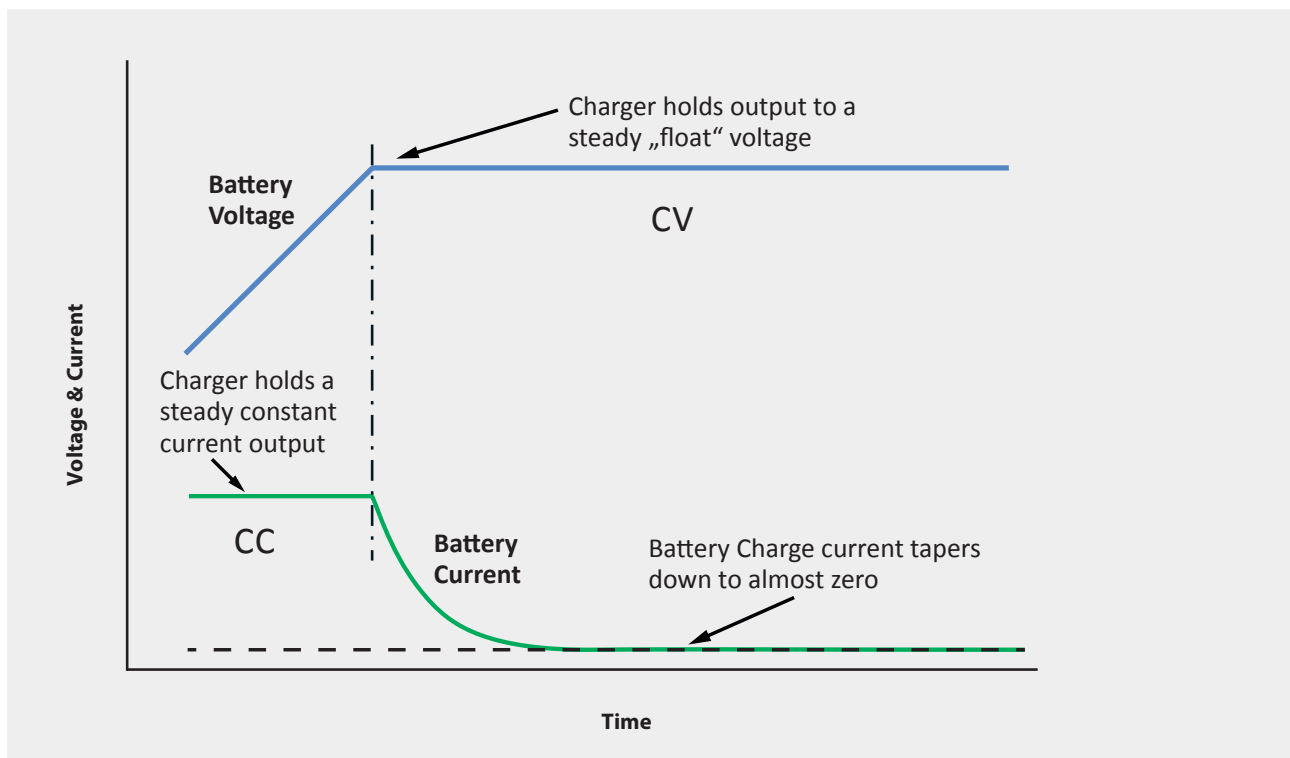
DC UPS

BP-LFP-D – LiFePO4 cell specifications

SPECIFICATION	VALUE
Nominal Voltage	3.3V
Nominal Capacity	2.5 Ah
Maximum discharge current - continuous (A)	40 A
Pulse discharge at 10 sec	70 A
Recommended standard charge	4 A to 3.5 V
Recommended fast charge	10 A to 3.5 V
Recommended float charge voltage	3.5 V
Recommended end of discharge cutoff	2.0 V
Absolute maximum cell temperature	85 °C (measured at cell surface)
Weight	75 g
Nanophosphate® Chemistry	M1-B
Current Interrupt Device (CID)	No



BP-LFP-D – Battery voltage and current during recharge



DC UPS

Safety information



Please consider to each country's own regulation about recycling and disposal of used batteries etc. in hazardous waste or resending to any recycling organization. The battery pack should not be exposed to fire, immersed under water, soldered, opened, short-circuited, reversed or overheated. During storage the battery pack should not be exposed to temperatures outside the specification and should not be pushed too heavy and not exposed to high pressure. Do not swallow any parts of the battery pack.

Specification is subject to change without notice. Errors excepted. Status as at: 03.03.2022