

## YCL12-12W SERIES



**Input: 220-240VAC 50/60Hz**

**Output Voltage: 12V /24V/36V/48V DC**

**Rated Power: 12W max**

### Features

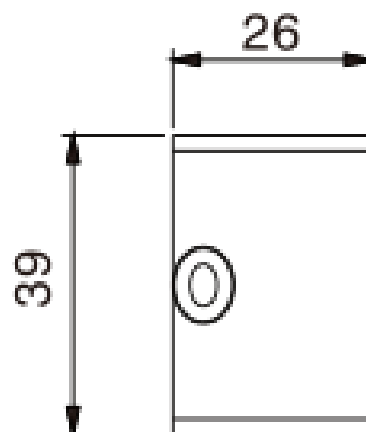
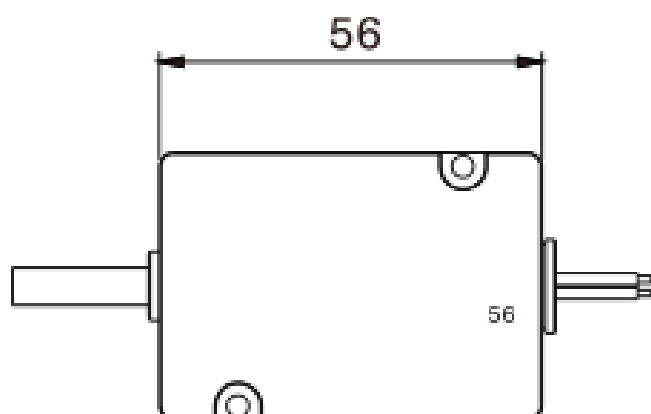
- flicker-free Design
- Protections: Over Voltage, Overload, Short Circuit,
- Class II Protection Design
- ERP: EU2019/2020
- IP67
- RoHS Compliance
- 100% full load burn-in test

CE SELV RoHS UK CA

### Application

LED strips  
LED indoor lighting  
LED decorative lighting  
LED building lighting

### ■ Dimensions and Installation

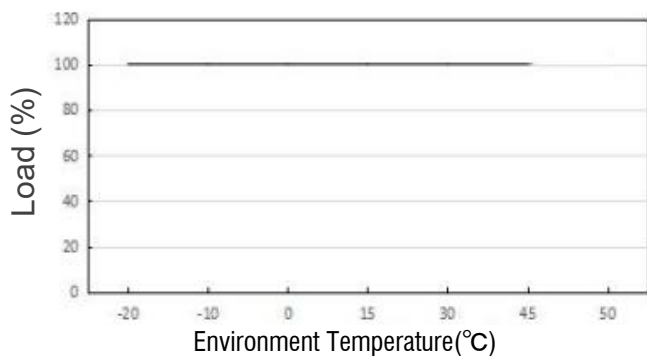


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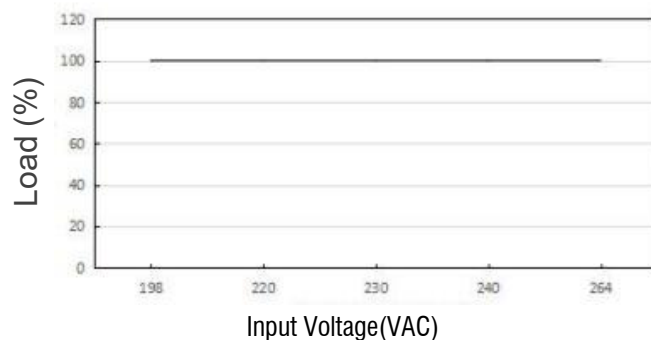
| MODEL DETAIL SPEC. |                              | YCL12-1201000                                                                                                                            | YCL12-2400500 | YCL12-3600330 | YCL12-4800250 |
|--------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|
| INPUT              | Input Voltage:               | 220-240VAC                                                                                                                               |               |               |               |
|                    | Range of Input Voltage:      | 198-264VAC                                                                                                                               |               |               |               |
|                    | Input Frequency:             | 50/60Hz                                                                                                                                  |               |               |               |
|                    | Input Current:               | 0.2A <sub>MAX</sub> @Full Load                                                                                                           |               |               |               |
|                    | Inrush Current:              | < 65 Amps at 230VAC/50Hz@full load                                                                                                       |               |               |               |
|                    | Leakage Current:             | < 0.25mA/240VAC                                                                                                                          |               |               |               |
|                    | THD (Full load):             | < 20%                                                                                                                                    |               |               |               |
|                    | Unload Power Consumption:    | < 0.5W                                                                                                                                   |               |               |               |
|                    | Average Efficiency:          | 82%                                                                                                                                      |               |               |               |
|                    | Power Factor:                | ≥0.7@Full Load 220-240VAC                                                                                                                |               |               |               |
| OUTPUT             | DC Voltage:                  | 12V                                                                                                                                      | 24V           | 36V           | 48V           |
|                    | Rated Current(Max):          | 1A                                                                                                                                       | 0.5A          | 0.33A         | 0.25A         |
|                    | Rated Power(Max):            | 12W                                                                                                                                      | 12W           | 12W           | 12W           |
|                    | Voltage Tolerance:           | ±5%                                                                                                                                      |               |               |               |
|                    | Ripple and Noise:            | 400mVp-p                                                                                                                                 | 400mVp-p      | 400mVp-p      | 400mVp-p      |
|                    | Line Regulation:             | ±3%                                                                                                                                      |               |               |               |
|                    | Load Regulation:             | ±5%                                                                                                                                      |               |               |               |
|                    | Setup, Rise, Hold Up Time:   | 1s, 10ms/60ms 230VAC @ full load                                                                                                         |               |               |               |
| ENVIRONMENTAL      | Operating Temperature Ta:    | -20°C ~ +45°C                                                                                                                            |               |               |               |
|                    | Storage Temp:                | -40°C ~ +85°C                                                                                                                            |               |               |               |
|                    | Maximum Case Temperature Tc: | +85°C                                                                                                                                    |               |               |               |
|                    | Humidity:                    | 20 ~ 95% RH                                                                                                                              |               |               |               |
|                    | Lifetime:                    | >30000hours@ta 40°C                                                                                                                      |               |               |               |
| PROTECTION         | Over Load:                   | Yes , Above 105%-130% rated output power<br>Protection type: Hiccup mode, recovers automatically after fault condition is removed        |               |               |               |
|                    | Over Voltage:                | Yes , 12V:13.8 ~ 16.2V 24V:27.6 ~ 32.4V 36V:41.4~48.6V 48V: 55.2~64.8V<br>Protection type: Shut down o/p voltage, re-power on to recover |               |               |               |
|                    | Short Circuit:               | Yes , Protection type:Hiccup mode, recovers automatically after fault condition is removed                                               |               |               |               |
|                    | Over Temperature:            | NO                                                                                                                                       |               |               |               |
|                    |                              |                                                                                                                                          |               |               |               |
| SAFETY & EMC       | Safety Regulations:          | EN61347-2-13:2014+A1:2017,EN61347-1:2015+A1:2021;EN62493:2015                                                                            |               |               |               |
|                    | Withstand Voltage:           | I/P-O/P:3750VAC                                                                                                                          |               |               |               |
|                    | Harmonic:                    | EN61000-3-2 Class C EN61000-3-3                                                                                                          |               |               |               |
|                    | EMI:                         | Compliance to EN55015                                                                                                                    |               |               |               |
|                    | EMS:                         | Compliance to EN61547:2009                                                                                                               |               |               |               |
| OTHER              | MTBF:                        | 200,000 Hours Minimum at Full Load at 25°C Ambient                                                                                       |               |               |               |
|                    | Case Material and Size:      | Plastic                                                                                                                                  |               |               |               |
|                    | IP Grade:                    | IP67                                                                                                                                     |               |               |               |
|                    | Size:                        | 56*39*26mm                                                                                                                               |               |               |               |
|                    | Weight:                      | 110g / pcs                                                                                                                               |               |               |               |
|                    | Packaging:                   | 100PCS/CTN                                                                                                                               |               |               |               |

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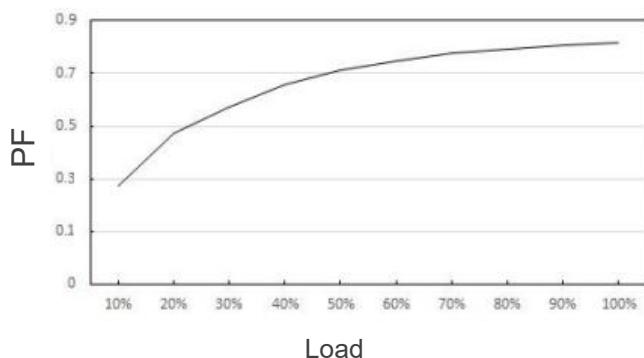
### Deduction Curve and Temperature



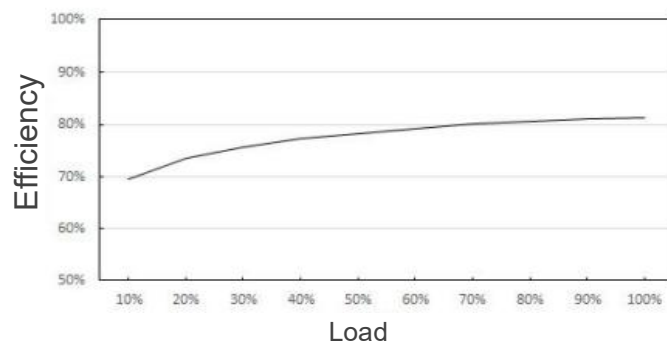
### Minus Output and Input Voltage Curves



### Power Factor (PF) Curves



### Efficiency Vs Load



### Wiring Diagram



### Manufacturer's address:

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Tel: +86-574-87563856

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