

# Datasheet

YCL150 SERIES 200W

**FORTEC**  
UNITED STATES

**FORTEC**  
INTEGRATED

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UNITED KINGDOM

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## YCL150-200W SERIES



**Input: 220-240V 50/60Hz**  
**Output Voltage: 12V,24V,36V,48V**  
**Rated Power: 200W max**

### Features

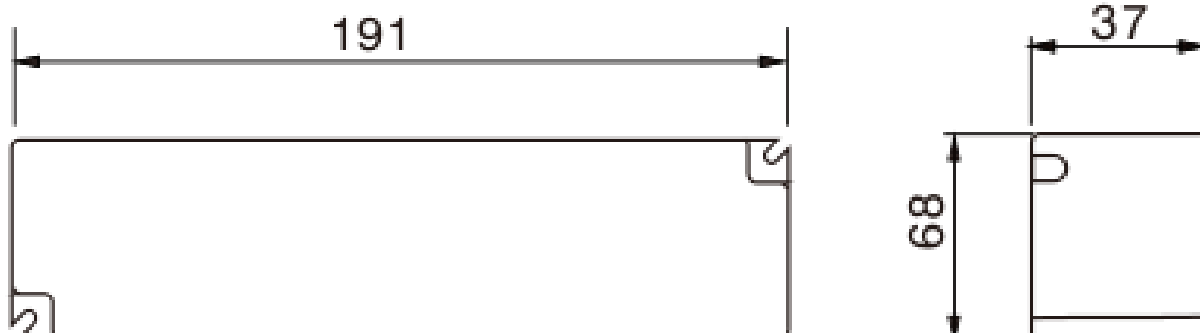
- flicker-free Design
- Protections: Over Voltage,Overload,Short Circuit,
- Class II Protection Design
- ERP:EU2019/2020
- IP67
- RoHS Compliance
- 100% full load burn-in test



### Application

LED strips  
 LED indoor lighting  
 LED decorative lighting  
 LED building lighting

### ■ Dimensions and Installation

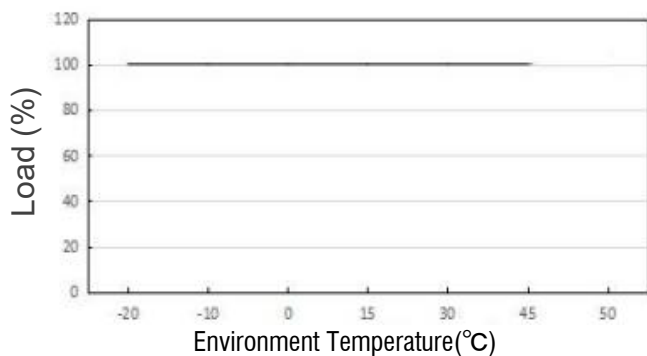


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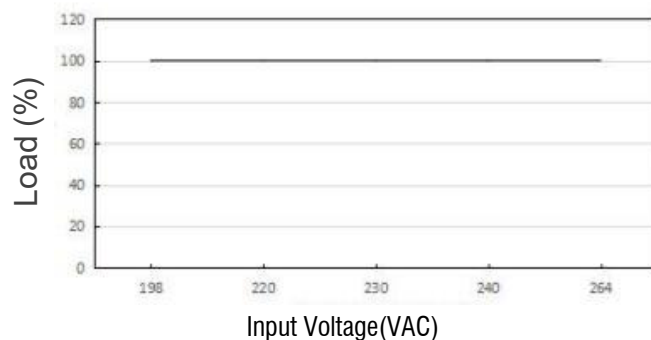
| MODEL DETAIL SPEC. |                              | YCL150-12016660  | YCL150-24008330 | YCL150-36005550 | YCL100-48004160 |
|--------------------|------------------------------|--|-----------------|-----------------|-----------------|
| INPUT              | Input Voltage:               | 220-240VAC   |                 |                 |                 |
|                    | Range of Input Voltage:      | 198-264VAC   |                 |                 |                 |
|                    | Input Frequency:             | 50/60Hz  |                 |                 |                 |
|                    | Input Current:               | 1.3AMAX@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:          | 92%  |                 |                 |                 |
|                    | Power Factor:                | ≥0.9@Full Load 220-240VAC  |                 |                 |                 |
| OUTPUT             | DC Voltage:                  | 12V  | 24V             | 36V             | 48V             |
|                    | Rated Current(Max):          | 16.66A   | 8.33A           | 5.55A           | 4.16A           |
|                    | Rated Power(Max):            | 200W   | 200W            | 200W            | 200W            |
|                    | 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:            | Yes , Protection type: Auto Restore  |                 |                 |                 |
|                    |                              |  |                 |                 |                 |
| 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:                        | 191*68*37mm  |                 |                 |                 |
|                    | Weight:                      | 820g / pcs   |                 |                 |                 |
|                    | Packaging:                   | 20PCS/CTN  |                 |                 |                 |

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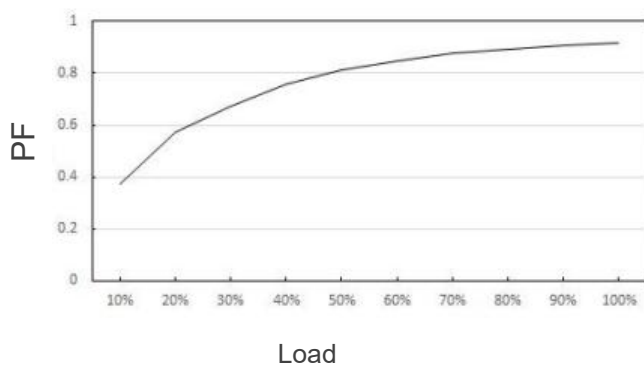
### Deduction Curve and Temperature



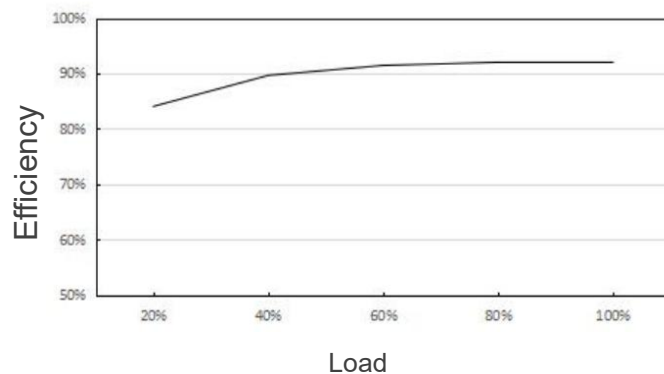
### Minus Output and Input Voltage Curves



### Power Factor (PF) Curves



### Efficiency Vs Load



### Wiring Diagram



### Manufacturer's address:

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