

*SPECIFICATION FOR APPROVAL*

**LED POWER SUPPLY**

CUSTOMER :

DESCRIPTION : Input:220~240V AC 50/60Hz

Output:12VDC 8.33A

OUR MODEL NO : MLED-12V100W-IP67

SAMPLE COLOR : Black ( ) White (  )

SALES:

APPROVED BY:

## Rev.List:

|        |                 |                      |              |
|--------|-----------------|----------------------|--------------|
| Rev:A0 | Date:2023-11-27 | Description: New Rev | Design: Wang |
| Rev:   | Date:           | /Description:        | Design:      |
| Rev:   | Date:           | Description:         | Design:      |
| Rev:   | Date:           | Description:         | Design:      |

## Table of contents

- 1、 DESCRIPTION
- 2、 ELECTRICAL SPECIFICATIONS
- 3、 IP Grade
- 4、 MECHANICAL REQUIREMENT
- 5、 WIRE GAUGE AND FORM FACTOR
- 6、 LABEL
- 7、 PACKING

## 1、 Scope description

This product for the LED driver , the product operational factors is the constant voltage model

## 2、 Electrical specifications

| 类别                | Item                                                                                                                         | Technical Norm                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
|                   | Max. Output Wattage                                                                                                          | 100W                              |
| Input             | Rated input voltage                                                                                                          | 220-240VAC                        |
|                   | Range of input voltage                                                                                                       | 198-264VAC                        |
|                   | Frequency(Hz)                                                                                                                | 50/60Hz                           |
|                   | Power Factor                                                                                                                 | ≥0.9 @Full Load 220-240VAC        |
|                   | Current                                                                                                                      | 0.6A MAX. @Full Load , 220-240VAC |
|                   | Start-up time                                                                                                                | < 1S for ERP @Full Load           |
|                   | Unload Power Consumption                                                                                                     | ≤0.5W                             |
| Output            | Unload voltage                                                                                                               | 12.6VDC MAX.                      |
|                   | Load Voltage rang                                                                                                            | 11.4-12.6VDC                      |
|                   | Constant Voltage                                                                                                             | 12V                               |
|                   | Voltage Accuracy                                                                                                             | ±5% @198-264VAC                   |
|                   | Voltage Regulation                                                                                                           | ≤5%@Full Load                     |
|                   | Hold-up Time                                                                                                                 | NA                                |
|                   | Efficiency in full load                                                                                                      | ≥88.00%@Full Load ,230VAC/50HZ    |
| Ripple            | < 500mVp-p @Full Load , 220-240VAC                                                                                           |                                   |
| Measured methods: | Output in parallel with a 0.1uf ceramic chip capacitor and a 10uf electrolytic capacitor<br>Measured using a 20MHz bandwidth |                                   |
| Protection        | Over Load Protection                                                                                                         | Protection type: Auto Restore     |
|                   | Over Voltage Protection                                                                                                      | Protection type: Auto Restore     |
|                   | Short circuit Protection                                                                                                     | Protection type: Auto Restore     |
|                   | Over Temperature protection                                                                                                  | Protection type: Auto Restore     |

|                        |                                                                                                                         |                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Hi-pot                 | Input-Output(V.AC)                                                                                                      | 3000V/5mA/1min                                                                                                    |
|                        | Input-FG(V.AC)                                                                                                          | NA                                                                                                                |
|                        | Output-FG(V.AC)                                                                                                         | NA                                                                                                                |
| Isolation resistance   | Input-Output(V.AC)                                                                                                      | $\geq 100M\Omega @ 500VDC$                                                                                        |
|                        | Input-FG(V.AC)                                                                                                          | NA                                                                                                                |
|                        | Output-FG(V.AC)                                                                                                         | NA                                                                                                                |
| Environment/ Life span | Operating Temperature                                                                                                   | -20°C...45°C                                                                                                      |
|                        | tc                                                                                                                      | 85°C                                                                                                              |
|                        | Storage Temperature                                                                                                     | -40°C...80°C                                                                                                      |
|                        | Humidity                                                                                                                | 20%-90%RH                                                                                                         |
|                        | Life time                                                                                                               | 30,000h @230V@Ta20-45°C                                                                                           |
|                        | HSF requirement                                                                                                         | RoHS                                                                                                              |
| feature                | Dimension (LXWXH)                                                                                                       | 193*52*37 (L * W * H)mm                                                                                           |
| Safety & EMC           | Approval                                                                                                                | CE                                                                                                                |
|                        | Safety standards                                                                                                        | EN 61347-2-13:2014+A1:2017<br>EN 61347-1:2015                                                                     |
|                        | EMI                                                                                                                     | EN IEC 55015;2019+A11: 2020<br>EN 61547:2009<br>EN IEC 61000-3-2:2019+A1:2021<br>EN61000-3-3:2013+A1:2019+A2:2021 |
| Note                   | All parameters NOT specially mentioned are measured at rated input or max rated input , and 25°C of ambient temperature |                                                                                                                   |

3、 IP Grade: IP67

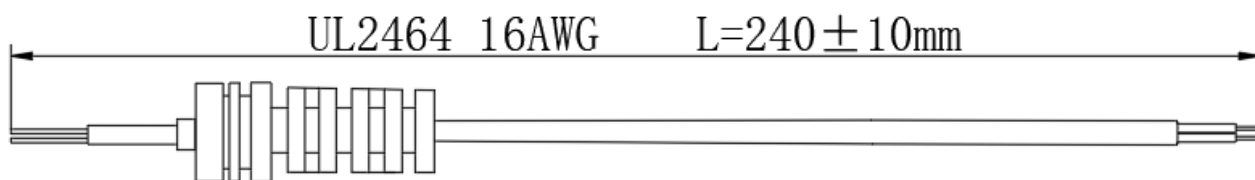
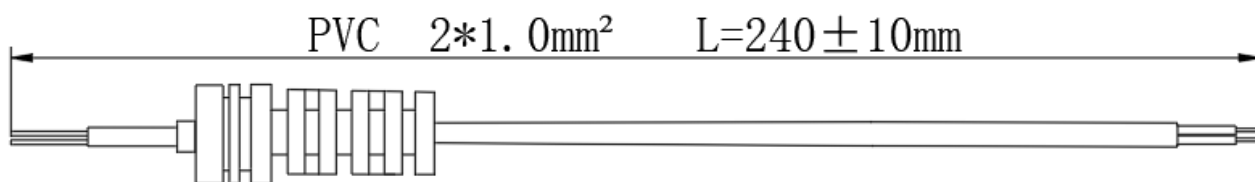
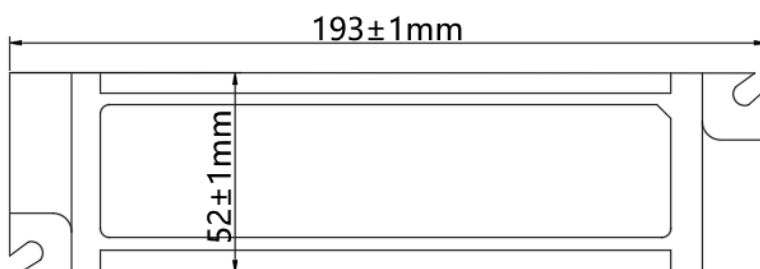
4、 MECHANICAL REQUIREMENT:

4.1 Enclosure: The power supply size: L193x W52 x H37mm;

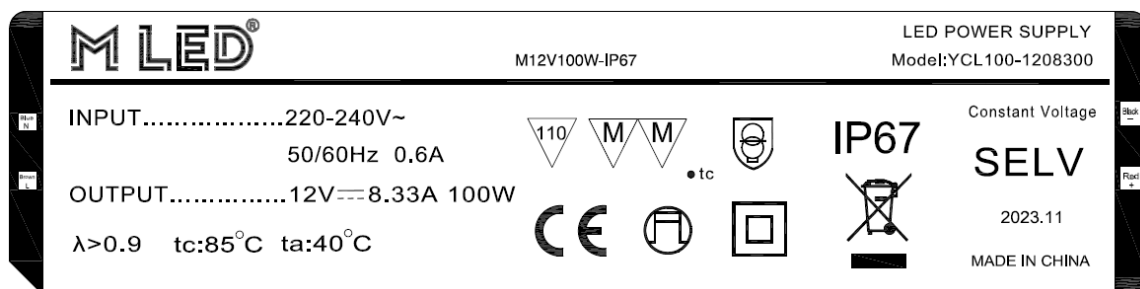
5、 Wire gauge and form factor -

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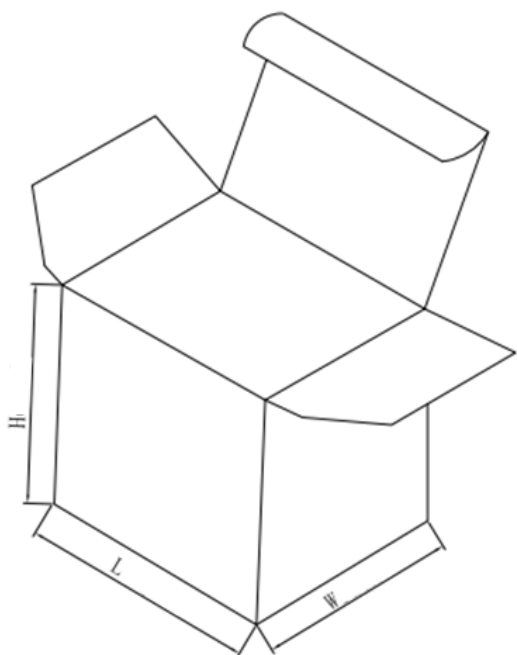
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|-----------|----------------------------|------|
| AC Input  | PVC 2*0.75 mm <sup>2</sup> | 0.2m |
| DC Output | UL2464 16/2C               | 0.2m |



6、 LABEL :



## 7. PACKING

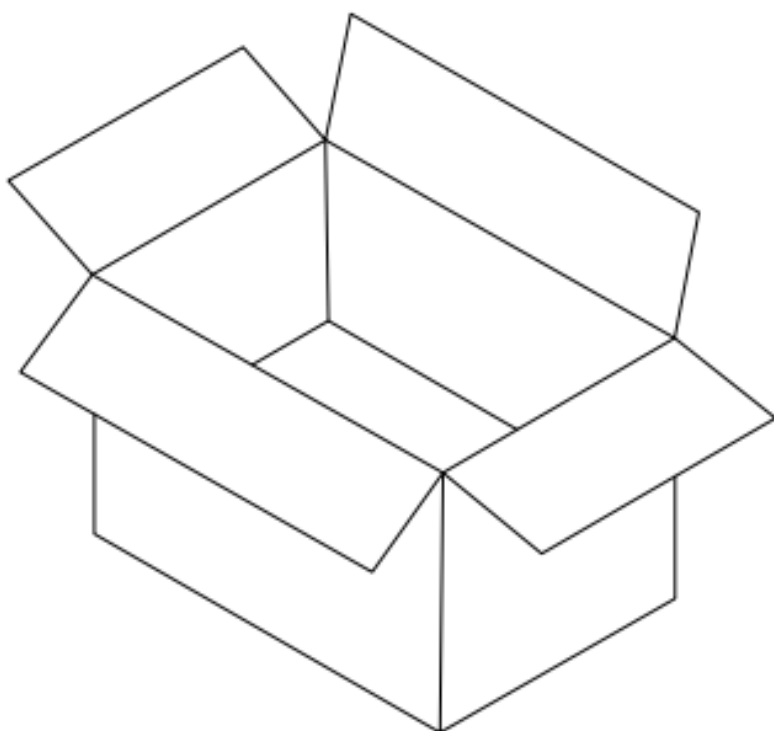


Inner box:

Length:65mm

Width:45mm

Height:260mm



Outside box:

350L\*280W\*200H (mm)

Quantity:20PCS