

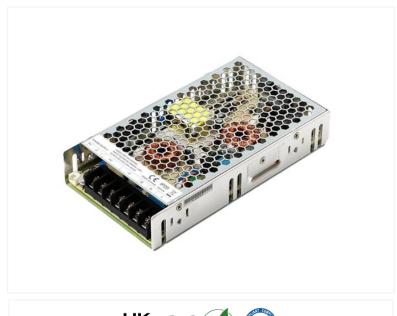
## **Features**

- Input Voltage 85~305V AC
- Cooling by free air convection
- Efficiency up to 88%
- Protection: OLP, OVP, SCP
- 3 Years Warranty



## 56YEP100-xAC-DC PSU Series

100W Enclosed AC/DC Power Supply





The 56YEP100-x Series is a consistent and high-performing 100W Enclosed AC/DC Power Supply. Designed for use in applications such as embedded electronics and control equipment. This series is supplied with a Screw Terminal Block input connection and supports input voltages of 85~305V AC 47~63Hz.

| Models        |             |         |        |            |           |            |
|---------------|-------------|---------|--------|------------|-----------|------------|
|               | 1           |         |        | 1          |           |            |
| Madal         | Voltage (V) | Rated   | Rated  | %          | Voltage   | Ripple and |
| Model         | DC          | Current | Power  | Efficiency | range     | Noise mVp- |
| 56YEP100-5    | 5           | 20      | 100    | 86         | 4.75~5.5  | 100        |
| 56YEP100-7.5  | 7.5         | 13.5    | 101.25 | 87.5       | 7.13~8.25 | 100        |
| 56YEP100-12   | 12          | 8.5     | 102    | 86         | 11.4~13.2 | 100        |
| 56YEP100-13.5 | 13.5        | 7.5     | 101.25 | 87         | 12.8~14.9 | 100        |
| 56YEP100-15   | 15          | 6.7     | 100.5  | 87         | 14.3~16.5 | 100        |
| 56YEP100-24   | 24          | 4.2     | 100.8  | 87         | 22.8~26.4 | 100        |
| 56YEP100-27   | 27          | 3.8     | 102.6  | 87         | 25.7~29.7 | 150        |
| 56YEP100-36   | 36          | 2.8     | 100.8  | 87.5       | 34.2~39.6 | 150        |
| 56YEP100-48   | 48          | 2.1     | 100.8  | 88         | 45.6~52.8 | 250        |
| 56YEP100-60   | 60          | 1.68    | 100.8  | 87.5       | 56~66     | 300        |



| Input Specifications |                                     |                                     |
|----------------------|-------------------------------------|-------------------------------------|
| Input Voltage        | 85-305VAC                           |                                     |
| Frequency Range      | 47-63Hz                             |                                     |
| AC Current           | 1.25A/115VAC 0.65A/230VAC           |                                     |
| Inrush Current       | Cold Start 30A/600us at 230VAC 50Hz | Cold Start 15A/600us at 115VAC 50Hz |
| Leakage Current      | <2mA/240VAC                         |                                     |

| Output Specifications    |                  |             |   |  |
|--------------------------|------------------|-------------|---|--|
| Voltage Tolerance        | +2.0% 5/7.5v     | +1 0%       | Others                                      |  |
| Line Regulation          | ±0.5%            | 11.070      | Outers                                      |  |
| Load Regulation          | +1.0% 5/7.5v     | +0.5%       | Others                                      |  |
| Set up Rise Time Hold up | 0.6s,30ms,16ms/2 | 30VAC(at fu | ll load) 0.6s,30ms,16ms/115VAC(at full load |  |

| Protection     |   |  |
|----------------|---|--|
|                |   |  |
| Over Load      | 105~135%Rated Output Power  |  |
| Over Load      | Constant current limiting, recovers automatically after fault condition is removed. |  |
| O V - It       | 115~135%Rated Output Voltage  |  |
| Over Voltage   | Shut down o/p voltage, re-power on to recover.                                      |  |
| Short Circuit  | Shut down o/p voltage, recovers automatically after temperature goes down.          |  |
| Remote Control | CN1:<0~0.8VDC POWER ON , 4~10VDC POWER OFF  |  |

| Environmental Characte     | eristics  |  |
|----------------------------|---|--|
| Working Temp               | -30 ~ +70°C(Please refer to "Derating Curve"section)  |  |
| Working Humidity           | 20 ~ 90%RH Non-condensing   |  |
| Storage Temp., Humidity    | -40~+85°C, 10~95% RH non-condensing   |  |
| Temp. Coefficient          | ±0.05%/(0 ~ 50°C) on load output  |  |
| Vibration                  | Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes                             |  |
| Over Voltage Category MTBF | OVC II / According to EN62368-1;altitude up to 2000 metersmeters 268.1Khrs min. MIL-HDBK-217F(25°C) |  |
| Safety Protection          | Class I   |  |

| Safety & EMC         |  |
|----------------------|--|
| Safety Standards     | BS/EN62368-1   |
| Withstand Voltage    | I/P-O/P:3KVAC/1min I/P-FG:2KVAC/1min O/P-FG:0.5KVAC/1min                                     |
| Isolation Resistance | I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH  |
| EMC Emission         | Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A-D,BS EN/EN61000-3-3 |
| EMC Immunity         | Compliance to BS EN/EN61000-4-11 Criteria B, BS EN/EN61000-4-2,3,4,5,6,8 Criteria A          |



## Notes:

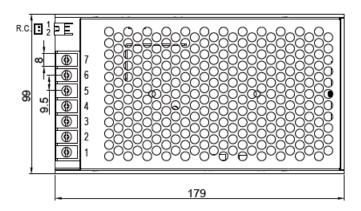
- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured from peak to peak with band width limit of 20MHz (0.1uf and 47uf /50V parallel capacitor under DC output full load, AC nominal input 25 °C ambient temperature).
- 3. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
- 5. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).

| Dimensions & Weight |                  |  |
|---------------------|------------------|--|
|                     |                  |  |
| Size                | 179 x 99 x 30 mm |  |
| Weight              | 520g/pcs         |  |

| Packaging                |                   |
|--------------------------|-------------------|
|                          |                   |
| Carton Size              | 29 x 32 x 19.5 cm |
| Master Carton Quantities | 24pcs/carton      |

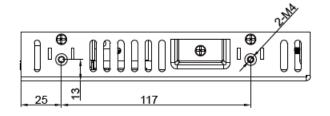


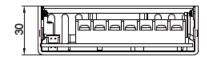
## Dimensions and Recommended Layout

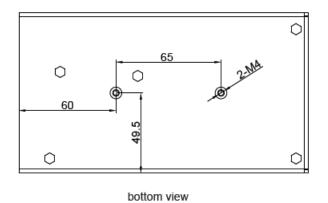


| Output |              |
|--------|--------------|
| No.    | Description  |
| 4,5    | DC OUTPUT -V |
| 6,7    | DC OUTPUT +V |

| Input |             |
|-------|-------------|
| No.   | Description |
| 1     | AC/L        |
| 2     | AC/N        |
| 3     | PE          |







 Remote ON/OFF (CN1)

 No.
 Description

 1
 RC+

 2
 RC

