

YSD60L SERIES 60W



Yingjiao's slimline power family are designed with slim plastic housing and for full range AC input from 90V AC TO 264V AC.

The series are single phase PSU, providing DC OK relay contact and adjustable DC output voltage. They have high efficiency and operate in wide temperature range.

The series can widely used for industrial automation & control systems, varied equipments etc.

Features

-  Universal AC Input/ Full Range
-  DC OK Relay Contact
-  Protection: Short Circuit/Overload/Over Voltage/Over Temperature
-  Installation on DIN Rail TS-35/7.5 & 15
-  DC Output Voltage Adjustable
-  Isolation Class I
-  Three Years Warranty

Model Information

| Yingjiao Part number | DC VOLTAGE | RATED CURRENT | RATED POWER |
|-------------------------|---------------|------------------|----------------|
| YSD60L-05010000 | 5V | 10A | 50W |
| YSD60L-12005000 | 12V | 5A | 60W |
| YSD60L-24002500 | 24V | 2.5A | 60W |
| YSD60L-48001250 | 48V | 1.25A | 60W |

Input

| | | |
|-----------------|----------------------|-----------------|
| VOLTAGE RANGE | 90-264VAC/127-370VDC | |
| FREQUENCY RANGE | 47~ 63Hz | |
| INRUSH CURRENT | 30A/115VAC | cold start |
| | 60A/230VAC | cold start |
| AC CURRENT | 1.8A/115VAC | |
| | 1A/230VAC | |
| LEAKAGE CURRENT | <1mA/240VAC | |
| EFFICIENCY | 78% | YSD60L-05010000 |
| | 86% | YSD60L-12005000 |
| | 88% | YSD60L-24002500 |
| | 78% | YSD60L-48001250 |

Output

| | | |
|--------------------|----------|-----------------|
| RIPPLE & NOISE | 80mVp-p | YSD60L-05010000 |
| | 120mVp-p | YSD60L-12005000 |
| | 150mVp-p | YSD60L-24002500 |
| | 200mVp-p | YSD60L-48001250 |
| VOLTAGE ADJ. RANGE | 5~ 6V | YSD60L-05010000 |
| | 12~15V | YSD60L-12005000 |
| | 24~30V | YSD60L-24002500 |
| | 48~ 56V | YSD60L-48001250 |

Output

| | |
|---------------------|--|
| VOLTAGE TOLERANCE | ± 2.0% |
| LINE REGULATION | ± 2.0% |
| LOAD REGULATION | ± 5.0% |
| SETUP, RISE TIME | 500ms, 30ms/230VAC at full load 500ms, 30ms/115VAC at full load |
| HOLD UP TIME (Typ.) | 50ms/230VAC at full load 20ms/115VAC at full load |

Protection

| | |
|--------------|--|
| OVER LOAD | 105%-150% Rated Output Power Protection type: Constant current limiting- recovers automatically after fault condition is removed. |
| OVER VOLTAGE | 5V:6.25~ 7.25V 12V:15.6 ~ 18V 24V:31.2 ~ 36V 48V:57.6 ~64.8V Protection type : Shut down o/p voltage, re-power on to recover |

Environment

| | |
|-----------------------|--|
| OPERATING TEMPERATURE | -20 °C to 70 °C (Refer to "Derating Curve") |
| STORAGE TEMP | -40 °C to 85 °C |
| STORAGE HUMIDITY | 10 ~ 95% RH |
| WORKING HUMIDITY | 20% ~ 90% RH Non-Condensing |
| MTBF | 2001.9K hrs min. Telcordia SR-332 (Bellcore) |

SAFETY & EMC

| | |
|----------------------|---|
| SAFETY REGULATIONS | UL508, UL1310 , BS/EN62368-1 approved |
| WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC |
| ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 °C / 70% RH |
| EMC EMISSION | BS EN/EN 55032 class B, BS EN/EN IEC 61000-3-2,3 |
| EMC IMMUNITY | BS EN/EN61000-4-2,3,4,5,6,8,11 |

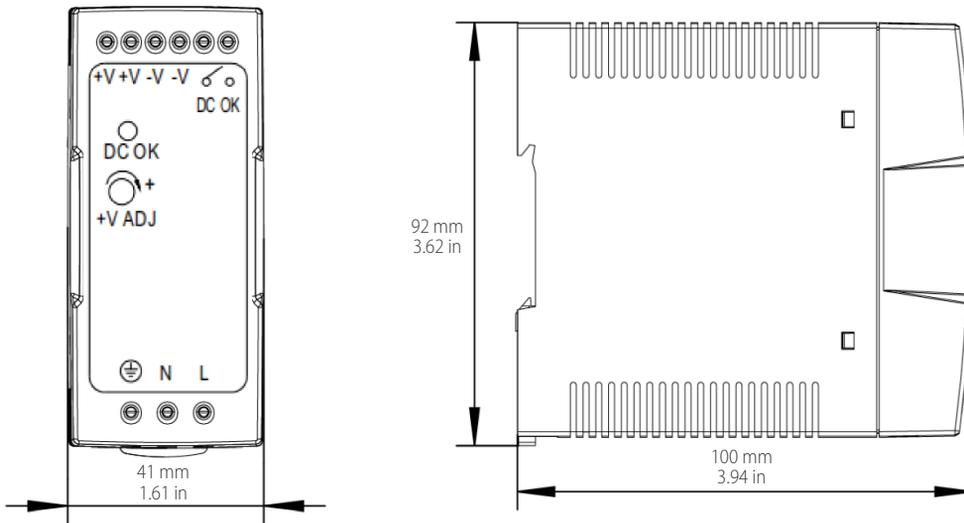
Dimensions & Weight

| | |
|---------|----------------|
| Length: | 41mm / 1.61in |
| Width: | 100mm / 3.94in |
| Height: | 92mm / 3.62in |
| Weight: | 280g |

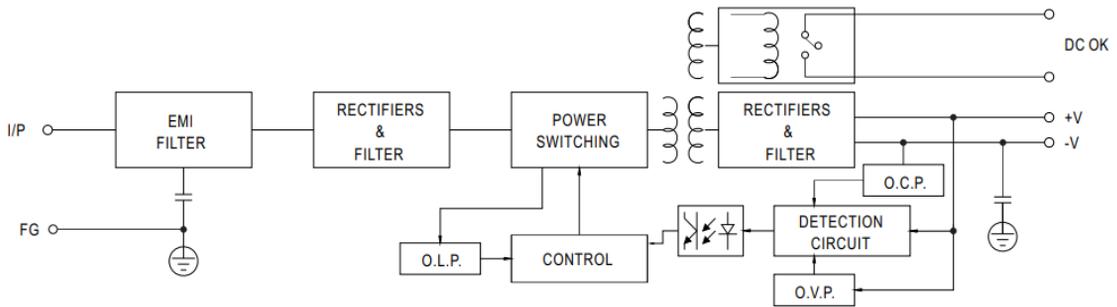
Packing

| | |
|---------------------------|---|
| Carton Size: | 54 x 24.5 x 24 CM 21.26 x 9.65 x 9.45 in |
| Master Carton Quantities: | 50pcs / Carton |

Dimensions and Installation



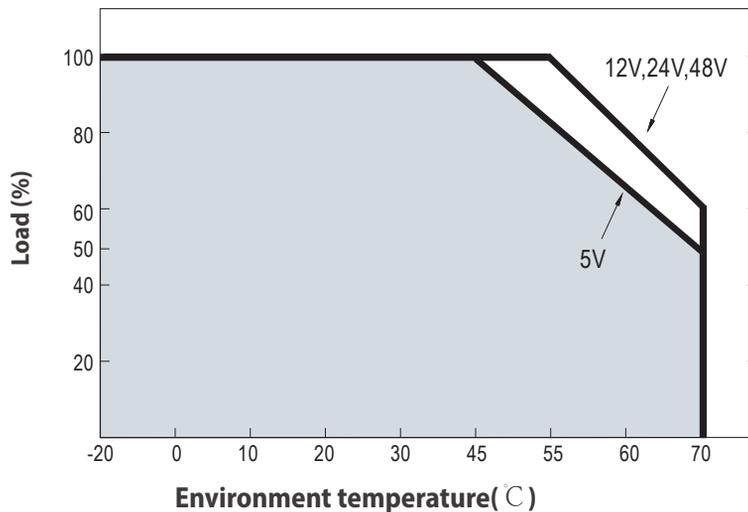
Functional Diagram



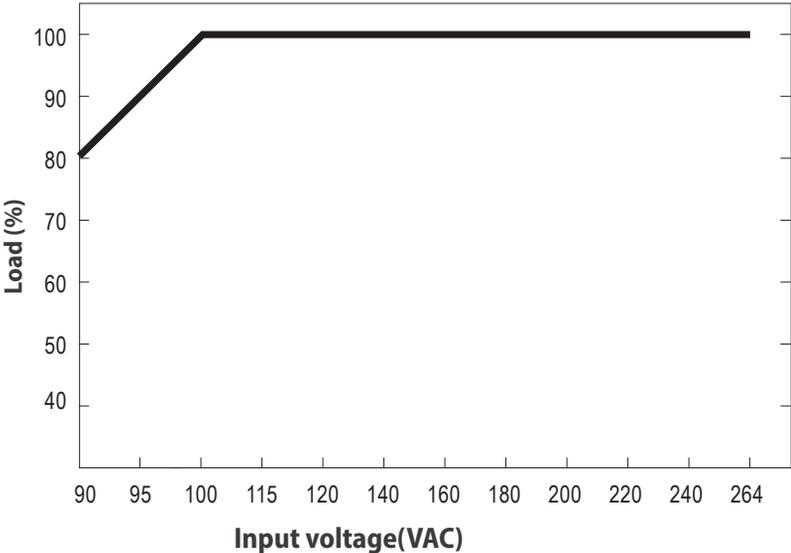
Application of DC OK Active Signal

| | |
|------------------------|--------------------------|
| Contact Close | PSU turns on / DC OK. |
| Contact Open | PSU turns off / DC Fail. |
| Contact Ratings (max.) | 30V/1A resistive load. |

Deduction curve and temperature



Minus output and input voltage curves



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