

YSDS30 SERIES 30W



Our step-shaped power family is designed with ultra-slim plastic housing for full-range AC input from 90V AC to 264V AC.

The series are isolation Class II Level, achieving high efficiency and low no-load power consumption. They provide adjustable DC output voltage and operate in wide temperature range.

The good performance can be used for building automation, household and industrial control systems, etc.

Features



Class II Power Supply



Installation on DIN Rail TS-35/7.5 & 15



Ultra Slim Step Shape



DC Output Voltage Adjustable



Protection: Short Circuit/Overload/
Over Voltage/Over Temperature



Three Years Warranty

Model Information

| Part number | DC VOLTAGE | RATED CURRENT | RATED POWER |
|-------------|------------|---------------|-------------|
| YSDS-30-05 | 5V | 3A | 15W |
| YSDS-30-12 | 12V | 2A | 24W |
| YSDS-30-15 | 15V | 2A | 30W |
| YSDS-30-24 | 24V | 1.25A | 30W |
| YSDS-30-48 | 48V | 0.63A | 30W |
| YSDS-30-10 | 10V | 3A | 30W |
| YSDS-36-12 | 12V | 3A | 36W |
| YSDS-36-24 | 24V | 1.5A | 36W |
| YSDS-36-48 | 48V | 0.75A | 36W |

Input

| | | |
|-----------------|---|------------|
| VOLTAGE RANGE | 85 - 264VAC (277VAC operational) 120 - 370VDC (390VDC operational) | |
| FREQUENCY RANGE | 47 - 63Hz | |
| INRUSH CURRENT | COLD START 25A/115VAC 45A/230VAC | |
| AC CURRENT | 0.88A/115VC 0.48A/230VAC | |
| EFFICIENCY | 82% | YSDS-30-05 |
| | 88% | YSDS-30-12 |
| | 89% | YSDS-30-15 |
| | 89% | YSDS-30-24 |
| | 90% | YSDS-30-48 |
| | 88% | YSDS-30-10 |
| | 88% | YSDS-36-12 |
| | 89% | YSDS-36-24 |
| | 90% | YSDS-36-48 |

Output

| | | |
|---------------------|---------------------------------|------------|
| RIPPLE & NOISE | 80mVp-p | YSDS-30-05 |
| | 120mVp-p | YSDS-30-12 |
| | 120mVp-p | YSDS-30-15 |
| | 150mVp-p | YSDS-30-24 |
| | 240mVp-p | YSDS-30-48 |
| | 100mVp-p | YSDS-30-10 |
| | 120mVp-p | YSDS-36-12 |
| | 150mVp-p | YSDS-36-24 |
| | 240mVp-p | YSDS-36-48 |
| VOLTAGE ADJ. RANGE | 4.5 ~ 5.5V | YSDS-30-05 |
| | 10.8 ~ 13.8V | YSDS-30-12 |
| | 13.5 ~ 18V | YSDS-30-15 |
| | 21.6 ~ 29V | YSDS-30-24 |
| | 43.2 ~ 55.2V | YSDS-30-48 |
| | 9.0 ~ 11.0V | YSDS-30-10 |
| | 10.8 ~ 13.8V | YSDS-36-12 |
| | 21.6 ~ 29V | YSDS-36-24 |
| | 43.2 ~ 55.2V | YSDS-36-48 |
| VOLTAGE TOLERANCE | ±2.0% | YSDS-30-05 |
| | ±1.0% | YSDS-30-12 |
| | ±1.0% | YSDS-30-15 |
| | ±1.0% | YSDS-30-24 |
| | ±1.0% | YSDS-30-48 |
| | ±1.0% | YSDS-30-10 |
| | ±1.0% | YSDS-36-12 |
| | ±1.0% | YSDS-36-24 |
| | ±1.0% | YSDS-36-48 |
| LINE REGULATION | ±1.0% | |
| LOAD REGULATION | ±1.0% | |
| SETUP, RISE TIME | 500ms, 50ms/230VAC at full load | |
| | 500ms, 50ms/115VAC at full load | |
| HOLD UP TIME (Typ.) | 30ms/230VAC at full load | |
| | 12ms/115VAC at full load | |

Protection

| | |
|--------------|---|
| OVER LOAD | 105 ~ 160% rated output power Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed |
| OVER VOLTAGE | 5.75 ~ 7.5V YSDS-30-05 15 ~ 18V YSDS-30-12 18.8 ~ 22.5V YSDS-30-15 30 ~ 36V YSDS-30-24 57.6 ~ 67.2V YSDS-30-48 8 ~ 12V YSDS-30-10 15 ~ 18V YSDS-36-12 30 ~ 36V YSDS-36-24 57.6 ~ 67.2V YSDS-30-48 |

Environment

| | |
|-------------------------|--|
| WORKING TEMP. | -10°C ~ +40°C |
| Working Humidity | 20 ~ 90% RH Non-Condensing |
| STORAGE TEMP., HUMIDITY | -40°C ~ +85°C, 10 ~ 95% RH non-condensing |
| TEMP. COEFFICIENT | ±0.03%/°C(0 ~ 50°C) RH non-condensing |
| VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance o IEC60068-2-6 |
| OPERATING ALTITUDE | 2000 meters |
| OVER VOLTAGE CATEGORY | III; According to EN61558, EN50178, EN60664-1, EN62477-1; altitude up to 2000 meters |

SAFETY & EMC

| | |
|-----------------------|--|
| SAFETY REGULATIONS | UL62368-1, BS EN/EN62368-1 |
| WITHSTAND VOLTAGE | I/P-O/P:3KVAC |
| INSULATION RESISTANCE | I/P-O/P: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 |

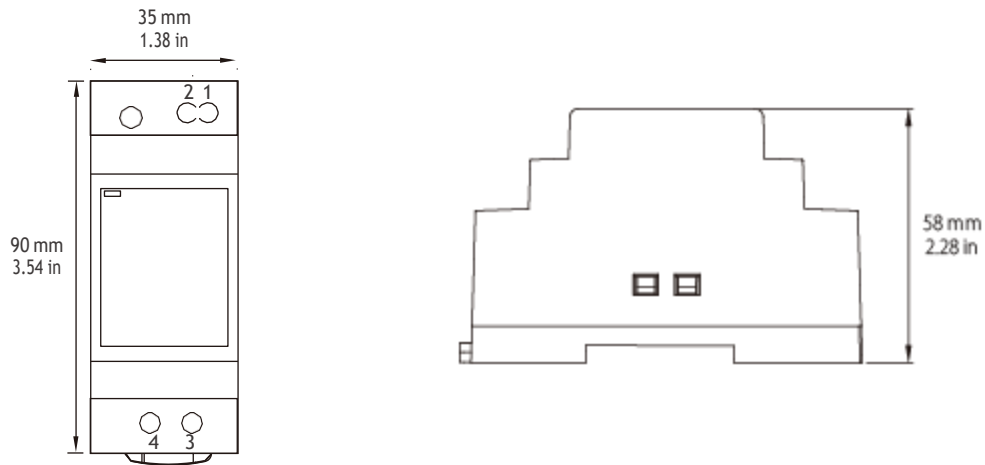
Dimensions & Weight

| | |
|---------|---------------|
| Length: | 35mm / 1.38in |
| Width: | 90mm / 3.54in |
| Height: | 58mm / 2.28in |
| Weight: | 120g |

Packing

| | |
|---------------------------|---|
| Carton Size: | 37 x 22 x 25 CM 14.57 x 8.66 x 9.84 in |
| Master Carton Quantities: | 50pcs / Carton |

Dimensions and Installation



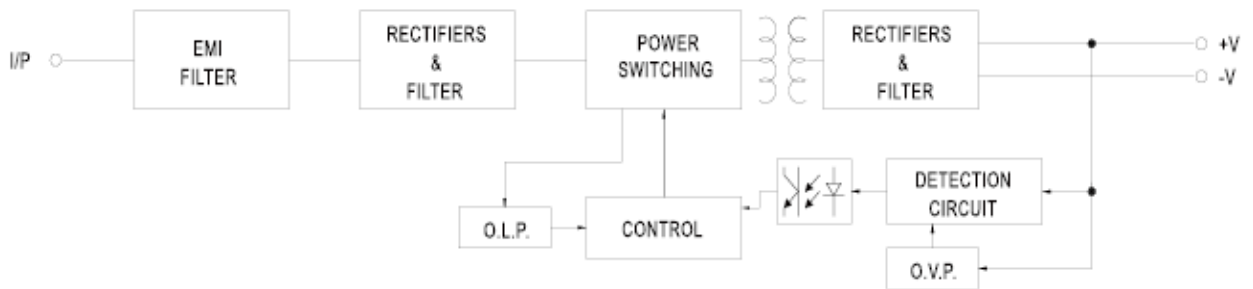
Input

| No. | Description |
|-----|-------------|
| 1 | +V |
| 2 | -V |

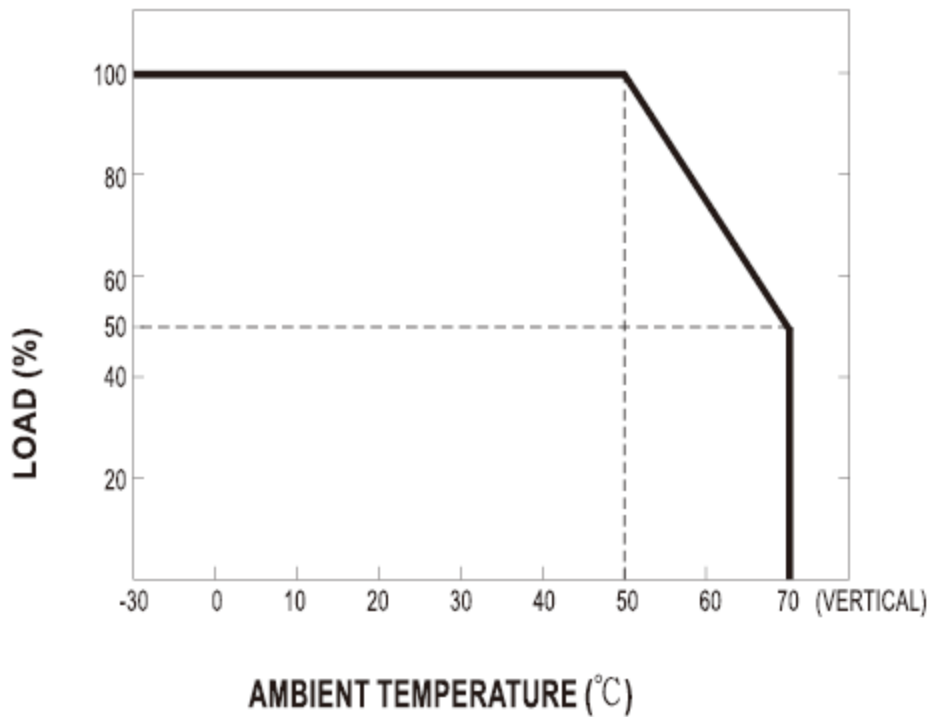
Output

| No. | Description |
|-----|-------------|
| 3 | AC/L |
| 4 | AC/N |

BLOCK Diagram



Deduction Curve And Temperature



Minus Output And Input Voltage Curves

