

Model Information

Yingjiao Part number	DC VOLTAGE	RATED CURRENT	RATED POWER
YSD15S-0502400	5V	2.4A	15W
YSD15S-1201250	12V	1.25A	15W
YSD15S-1501000	15V	1A	15W
YSD15S-2400630	24V	0.63A	15W
YSD15S-4800310	48V	0.31A	15W

Input

VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC
FREQUENCY RANGE	47 ~ 63Hz
INRUSH CURRENT	COLD START 25A/115VAC 45A/230VAC
AC CURRENT	0.5A/115VAC 0.25A/230VAC
EFFICIENCY	80% YSD15S-0502400 85% YSD15S-1201250 85.5% YSD15S-1501000 86% YSD15S-2400630 87% YSD15S-4800310

Output

RIPPLE & NOISE	80mVp-p	YSD15S-0502400
	120mVp-p	YSD15S-1201250
	120mVp-p	YSD15S-1501000
	150mVp-p	YSD15S-2400630
	240mVp-p	YSD15S-4800310
VOLTAGE ADJ. RANGE	4.5~5.5V	YSD15S-0502400
	10.8~13.8V	YSD15S-1201250
	13.5~18V	YSD15S-1501000
	21.6~29V	YSD15S-2400630
	43.2~55.2V	YSD15S-4800310
VOLTAGE TOLERANCE	± 2.0%	YSD15S-0502400
	± 2.0%	YSD15S-1201250
	± 2.0%	YSD15S-1501000
	± 2.0%	YSD15S-2400630
	± 2.0%	YSD15S-4800310
LINE REGULATION	± 1.0%	
LOAD REGULATION	± 1.0%	
SETUP, RISE TIME	2000ms, 80ms/230VAC	at full load
	2000ms, 80ms/115VAC	at full load
HOLD UP TIME (Typ.)	30ms/230VAC	at full load
	12ms/115VAC	at full load

Protection

OVER LOAD	110 ~ 145% rated output power Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed Constant current limiting within 50%-100% rated output voltage, recovers automatically after fault condition is removed.
OVER VOLTAGE	5.75 ~ 6.75V YSD15S-0502400 14.2 ~ 16.2V YSD15S-1201250 18.8 ~ 22.5V YSD15S-1501000 30 ~ 36V YSD15S-2400630 56.5 ~ 64.8V YSD15S-4800310 Protection type : Shut off o/p voltage, clamping by zener diode

Environment

WORKING TEMP.	— 20 °C ~ +70 °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 to 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

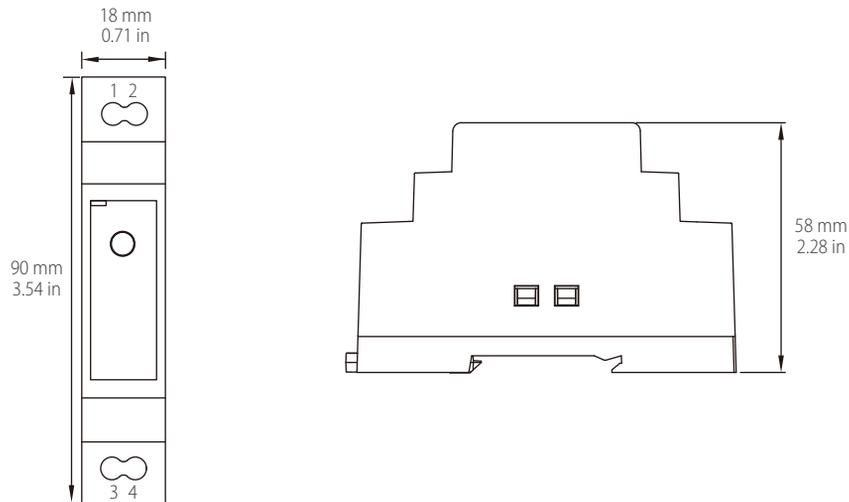
Dimensions & Weight

Length:	18mm / 0.71in
Width:	90mm / 3.54in
Height:	58mm / 2.28in
Weight:	78g

Packing

Carton Size:	33.5 x 25.5 x 21 CM 13.19 x 10.04 x 8.27 in
Master Carton Quantities:	100pcs / Carton

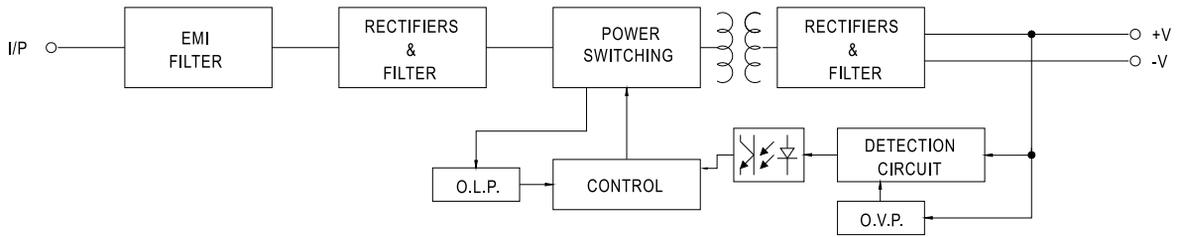
Dimensions and Installation



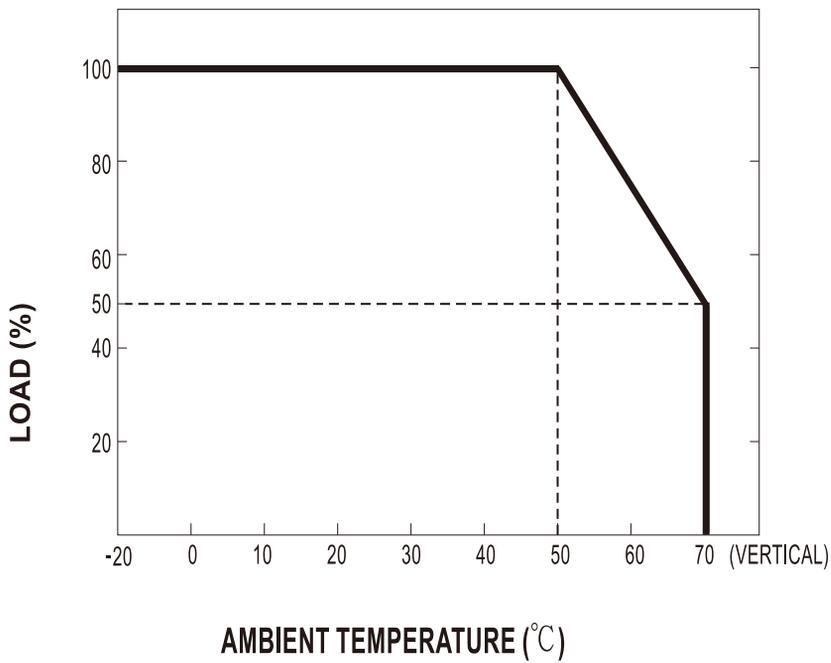
Input	
No.	Description
1	+V
2	-V

Output	
No.	Description
3	AC/N
4	AC/L

Functional Diagram



Deduction Curve And Temperature



Minus Output And Input Voltage Curves

