

# **YSD20L SERIES 20W**



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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 equip-

#### **Features**



Universal AC Input/Full Range



ments etc.

Installation on DIN Rail TS-35/7.5 & 15



DC OK Signal Output



DC Output Voltage Adjustable



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



Three Years Warranty

### **Model Information**

Yingjiao Part number	DC VOLTAGE	RATED CURRENT	RATED POWER
YSD20L-0503000	5V	3A	15W
YSD20L-1201670	12V	1.37A	20W
YSD20L-1501340	15V	1.34A	20W
YSD20L-2401000	24V	1A	24W

## Input

VOLTAGE RANGE	85-264VA	AC/120-370VDC
FREQUENCY RANGE	50/60Hz	
INRUSH CURRENT	35A/115VAC	
	70A/230\	VAC
AC CURRENT	0.33A/115VAC	
	0.21A/23	OVAC
LEAKAGE CURRENT	<0.25mA	V240VAC
EFFICIENCY	76%	YSD20L-0503000
	80%	YSD20L-1201670
	81%	YSD20L-1501340
	84%	YSD20L-2401000

# Output

RIPPLE & NOISE	80mVp-p	YSD20L-0503000
	120mVp-p	YSD20L-1201670
	120mVp-p	YSD20L-1501340
	150mVp-p	YSD20L-2401000
VOLTAGE TOLERANCE	± 5.0%	
LINE REGULATION	± 1.0%	
LOAD REGULATION	± 5.0%	
SETUP, RISE TIME	500ms, 30ms/2	230VAC at full load
	1000ms, 30ms,	/115VAC at full load

#### **Protection**

OVER LOAD	>105%-150% Rated Output Power
	Protection type: Hiccup Mode- recovers automatically after fault
	condition is removed
OVER VOLTAGE	5V:5.75~ 6.75V
	12V:13.8 ~ 16.2V
	15V:17.25 ~ 20.25V
	24V:27.6 ~ 32.4V
	Protection type : Shut down o/p voltage, re-power on to recover
OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover
OVER CURRENT	110%-180%

### **Environment**

OPERATING TEMPERATURE	-20 °C to 60 °C , Full Load, Normal Operation
STORAGE TEMP	-40 °C to 85 °C
STORAGE HUMIDITY	10 ~ 95% RH
WORKING HUMIDITY	20% ~ 95% RH Non-Condensing
MTBF	200,000 Hours Minimum at Full Load at 25 °C Ambient

### **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	Compliance to BS EN/EN55032 (CISPR32),
	BS EN/EN61204-3 Class B, BS EN/EN61000- 3-2,-3,
	EAC TP TC 020, CNS13438 Class B

# **Dimensions & Weight**

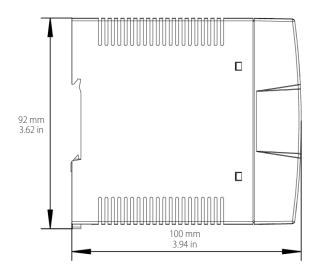
Length:	23mm / 0.91in
Width:	100mm / 3.94in
Height:	92mm / 3.62in
Weight:	150g

## **Packing**

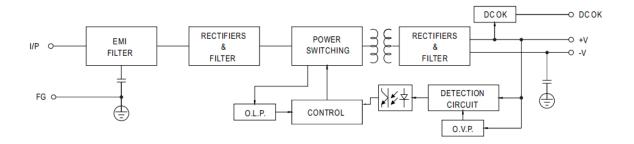
Carton Size:	54 x 30 x 24 CM
	21.26 x 11.81 x 9.45 in
Master Carton Quantities:	100pcs / Carton

### **Dimensions and Installation**



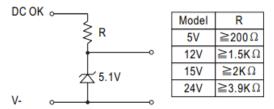


### **Functional Diagram**

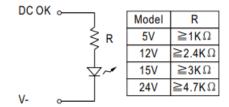


### **Application of DC OK Active Signal**

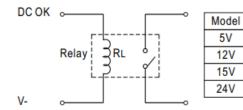




#### (b) LED



#### (c) Relay



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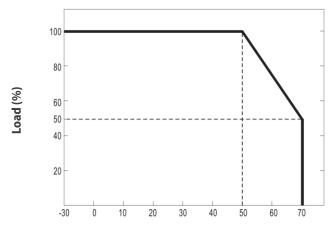
≥120 Ω

≥700Ω

≥700Ω

≥1.2KΩ

## **Deduction curve and temperature**



#### **Environment temperature** ( $^{\circ}$ C)

## Minus output and input voltage curves

