

## **Features**

- Universal Input 90~264VAC 50/60Hz
- Output Voltages: 12-48V DC
- IEC/UL/EN 60950-1
- Meets the latest Safety Standards and Approvals
- Single Output to 100W
- High Efficiency
- 100% Full load burn-in Test
- Low Ripple & Noise
- Class II
- Protection: Overload/Over voltage/Short circuit
- Dimensions: 58 x 70 x 90mm
- Weight: 270g



Ideal Power's 56YSD100S-xy 100W DIN Rail Mount AC/DC Power Supply Converter Series are certified to cRUus, CE, RoHS & IEC/UL/EN62368 Standards and comply with (EU) 2019/1782, Level VI Efficiency Regulations. These are primarily used in ITE, Audio & Video Industries and customised solutions are available upon request.

Models			
Model Number	Output	Output	Output
	Voltage	Current	Power
56YSD100S-1207100	12V DC	7.1A	85W
56YSD100S-2403800	24V DC	3.8A	91.2W
56YSD100S-4802000	48V DC	2A	96W

General Specification	
Туре	DIN Rail Power Supply
AC or DC Input Voltage	AC
AC or DC Output Voltage	DC
Number of Outputs	1
Mounting Style	Din Rail Mount
Connection Type	Screw Terminal Type
Overload Protection	>130%-200% rated output power (Protection type: Hiccup mode, recovers automatically after fault condition is removed)
Over Current Protection	110% - 180%
Short Circuit Protection	Protection to Zero Voltage
Over Voltage Protection	110~145% (Protection Type: Clamp by zener diode)



# 56YSD100S-xy DIN Rail Series Up to 100 Watt

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Housing Material	Fully Enclosed Plastic Case		
Overall Dimensions	58mm x 70mm x 90mm		
Overall Length	90mm		
Overall Depth	58mm		
Overall Width	70mm		
Weight	270g		

### **Input Specifications**

Input Electrical Phase	Single		
Line Frequency	47-63Hz		
Inrush Current	35Amps max. at 115VAC/60Hz,full load & 70Amps max. at 240VAC/50Hz,full load		
AC Current	3A/115VAC 1.6A/230VAC		
Efficiency Type	88~91% Depending on Model		
Leakage Current	<0.25mA/240VAC		

#### **Output Specifications**

Output Voltage Adjustment	+/- 10% Depending on Model
Ripple and Noise	120~240 mV Depending on Model
Line Regulation	± 1%
Load Regulation	± 1%
Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25 / 70% RH
Setup, Rise, Hold Up time	500mS/60mS/12mS(115V/60HZ MAX ROAD), 500mS/60mS/30mS(230V/50HZ MAX ROAD)
MTBF	200000 h

### **Operational Environment**

Operating Humidity	20% ~ 90% RH non-condensing		
Operating Temperature Range	-20°C to 50°C,Full load, Normal operation.		
Storage Temperature Range	-40°C to 80°C		
Storage Humidity	10% ~ 95% RH		
Cooling	Cooling		

# Protection Category

IP Rating	IP20	



#### **Approvals**

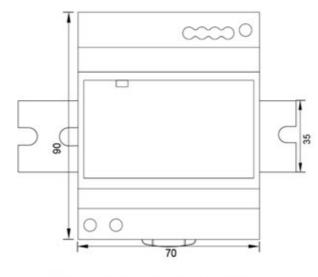
Safety Standard UL60950-1, UL508, , BSMI CNS14336-1,TUV EN61558-2-16 IEC60950-1, EAC TPTC 004,TUVEN60950-1

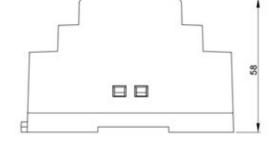
**EMC Emissions** 

EN55032(CISPR32), CNS13438 Class B ,EN61000-3-2 ClassA ,EN61000-3-3,EN61000-4-2,3,4,5,6,8,11, EN55024, EN55035, EN61000-6-2, EN61204-3

#### **Mechanical Drawing**

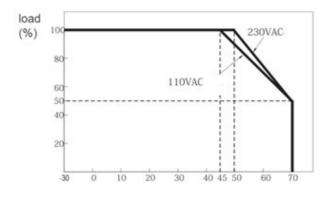
■ Dimensions and Installation:

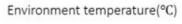


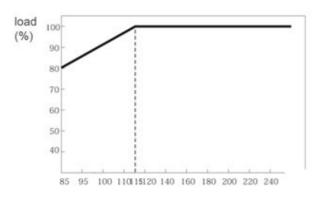


■ Deduction curve and temperature:

■ Minus output and input voltage curves:







Input voltage(VAC)