

## Features

- Universal Input 90~264V AC / 120~370 V DC 50/60Hz</li>
- High-Efficiency
- 100% Full load burn-in Test
- Protection: OLP, OVP, SCP
- Class II Isolation
- 3 years warranty



Ideal Power's 56YSD100S-xy 100W DIN Rail Mount AC/DC Power Supply Converter Series are certified to cURus, 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 Voltage (V DC)	Output Current (A)	Output Power (W)	Efficiency (%)	Ripple & Noise (mVp-p)
56YSD100S-1207100	12	7.1	85	88	120
56YSD100S-2403800	24	3.8	91.2	90	150
56YSD100S-4802000	48	2	96	90	240

### 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

## General Specification

Type	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)

## Mechanical Specifications

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

## 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

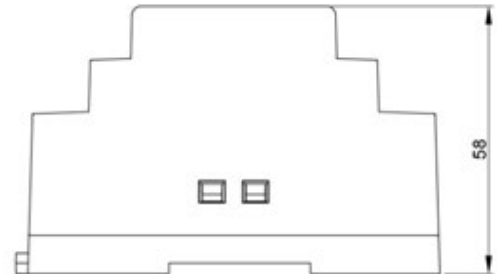
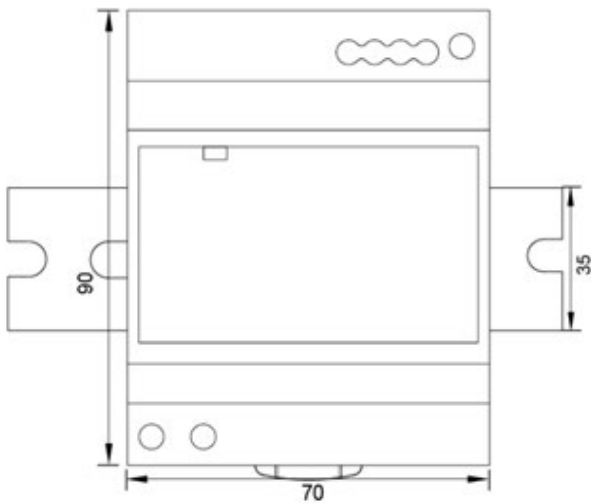
IP Rating	IP20
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## Approvals

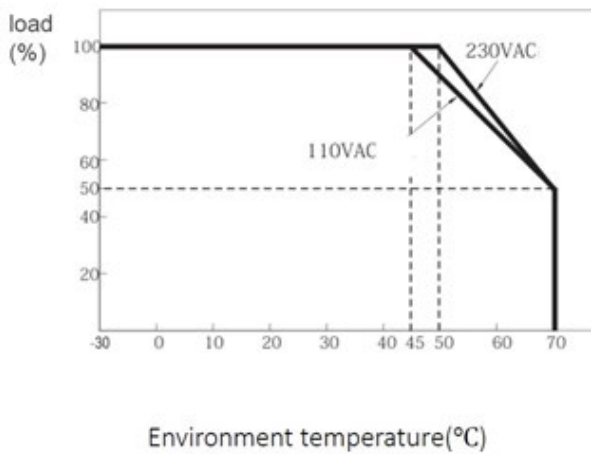
Safety Standard	UL60950-1, UL508, , BSMI CNS14336-1, TUV EN61558-2-16 IEC60950-1, EAC TPTC 004, TUVEN60950-1
EMC Emissions	EN55032(CISPR32), CNS13438 Class B , EN61000-3-2 ClassA , EN61000-3-3, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN55035, EN61000-6-2, EN61204-3

**Mechanical Drawing**

■ Dimensions and Installation:



■ Deduction curve and temperature:



■ Minus output and input voltage curves:

