

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-RS 100W DIN Rail Mount AC/DC Power Supply Converter Series are certified to cURus, UKCA, CE, RoHS, REACH & EN 62368-1/IEC 62368-1/UL 62368-1 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	RS Part	Output Voltage	Output Current	Power
56YSD100S-1207100	225-9898	12V DC	7.1A	85W

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

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

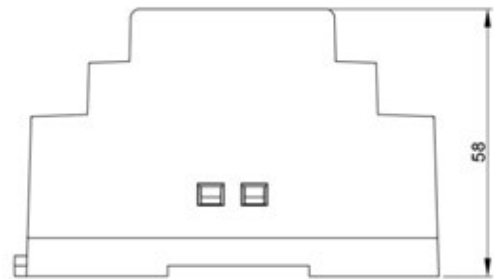
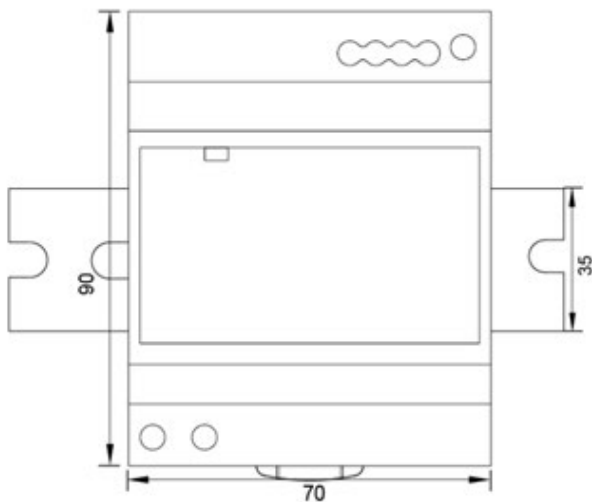
IP Rating	IP20
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Approvals

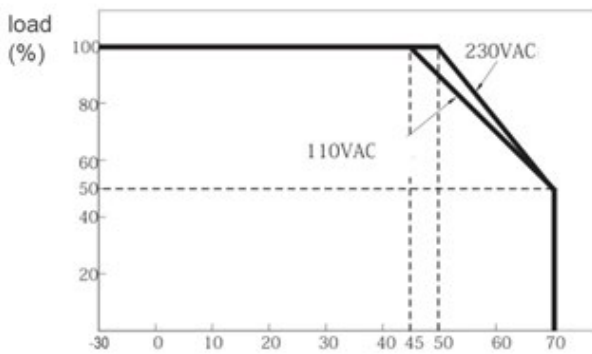
Safety Standard	UL60950-1, UL508, , BSMI CNS14336-1,TUV EN61558-2-16 IEC60950-1, EAC TPTC 004,TUVEN60950-1
EMC Emissions	EN55032(CISPR32), CNS13438 Class B ,EN61000-3-2 ClassA ,EN61000-3-3,EN61000-4-2,3,4,5,6,8,11, EN55024, EN55035, EN61000-6-2, EN61204-3

Mechanical Drawing

■ Dimensions and Installation:

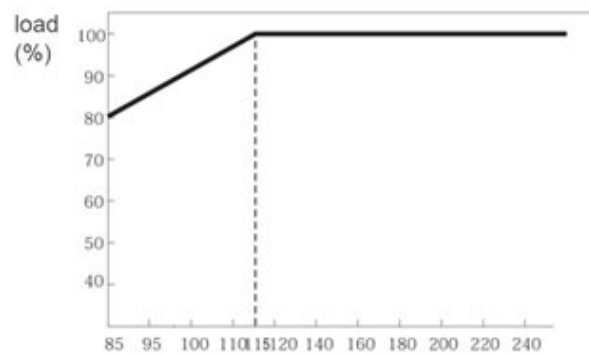


■ Deduction curve and temperature:



Environment temperature(°C)

■ Minus output and input voltage curves:



Input voltage(VAC)