

Features

- Universal Input 90~264VAC 50/60Hz
- Output Voltages: 5-24V DC
- IEC/UL/EN 60950-1
- Meets the latest Safety Standards and Approvals
- Single Output to 30W
- High Efficiency
- 100% Full load burn-in Test
- Low Ripple & Noise
- Class II
- Protection: Overload/Over voltage/Short circuit



Ideal Power's 56YSD30S-xy-RS 30W 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 Number	Output Voltage	Output Current	Output Power
56YSD30S-0503000-RS	225-9902	5V DC	3A	15W
56YSD30S-1202500-RS	225-9903	12V DC	2.5A	30W
56YSD30S-2401250-RS	225-9904	24V DC	1.25A	30W

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 (Hiccup mode, recovers automatically after fault condition is re-moved)
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 35mm x 90mm
Overall Length	90mm
Overall Depth	58mm
Overall Width	35mm
Weight	120g

Input Specifications

Input Electrical Phase	Single
Line Frequency	47-63Hz
Inrush Current	25 Amps max. at 115VAC/60Hz, full load & 45Amps max. at 240VAC/50Hz, full load
AC Current	0.88A/115VAC 0.48A/230VAC
Efficiency Type	82~89% Depending on Model
Leakage Current	<0.25mA/240VAC

Output Specifications

Output Voltage Adjustment	+/- 10% Depending on Model
Ripple and Noise	80~150 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/50mS/12mS(115V/60HZ MAX ROAD), 500mS/50mS/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

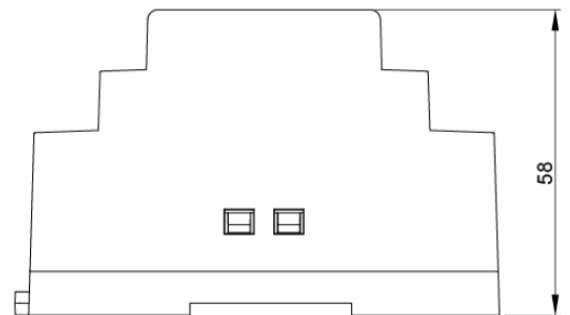
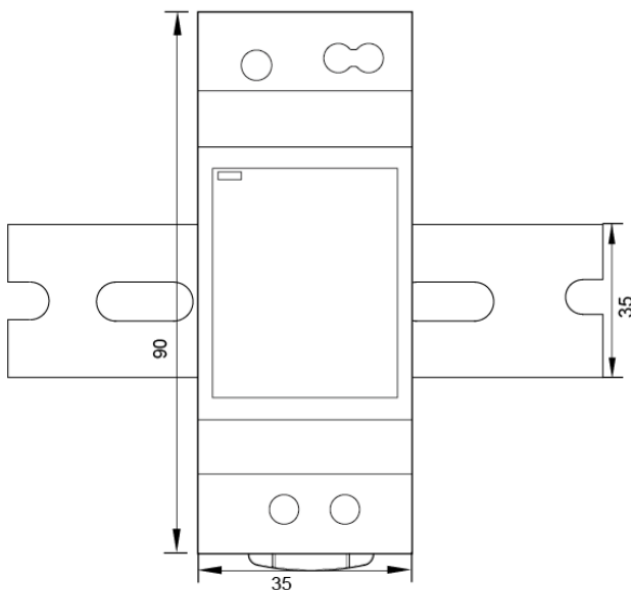
IP Rating	IP20
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Approvals

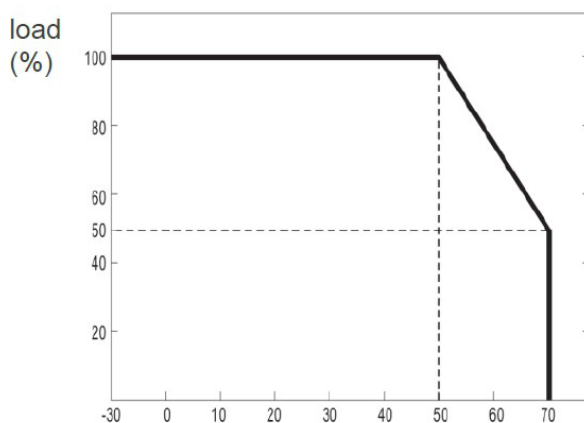
Safety Standard	UL60950-1, UL508, , BSMI CNS14336-1,TUV EN61558-2-16 IEC60950-1, EAC TPTC 004,TUV EN60950-1
EMC Emissions	EN55032(CISPR32), CNS13438 Class B ,EN61000-3-2 ClassA ,EN61000-3-3,EN61000-4-2,3,4,5,6,8,11,EN55024, EN55035, EN61000-6-2, EN61204-3

Mechanical Drawing

■ Dimensions and Installation:

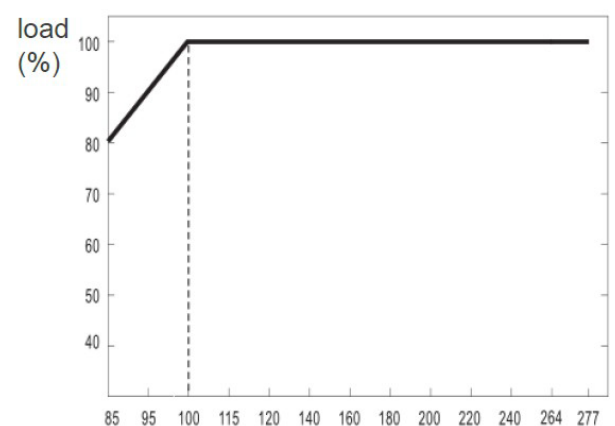


■ Deduction curve and temperature:



Environment
temperature(°C)

■ Minus output and input voltage curves:



Input voltage(VAC)