

Features

- Universal Input 90~264VAC / 127~370 VDC 50/60Hz
- DC Output Adjustable
- Output Voltages: 24-48V DC
- Meets the latest Safety Standards and Approvals
- UL508, BS/EN62368-1
- High Efficiency

Input Specifications

Leakage Current

Protection: OVP, OLP, SCP





Ideal Power's 56YSDN480-xy 480W DIN Rail Mount AC/DC Power Supply Converter Series are certified to UKCA, CE, cULus & UL508/EN62368-1/BS62368-6 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)
56YSDN480-24020000	24	20	480	92	150
56YSDN480-48010000	48	10	480	92	160

Input Electrical Phase Single Line Frequency 50~60Hz Inrush Current 20A/115VAC / 35A/230VAC AC Current 4.8A/115VAC / 2.4A/230VAC

<2mA/240VAC

Output Specifications		
Output Voltage Tolerance	<u>+</u> 2.0%	
Line Regulation	± 0.5%	
Load Regulation	± 1.0%	
Setup, Rise Time	1500ms, 60ms/230VAC at full load	
	3000ms, 60ms/115VAC at full load	
Hold Up time	16ms/230VAC at full load	
	16ms/115VAC at full load	



General Specification

Туре	DIN Rail Power Supply
Number of Outputs	1
Mounting Style	Din Rail Mount
Connection Type	Screw Terminal Type
Overload Protection	>105%-130% rated output power: Recovers automatically after fault condition is re-moved
Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down
Over Voltage Protection	29~33V - 56YSDN480-24020000 56~65V - 56YSDN480-48010000 Protection type: Shut down o/p voltage, re-power on to recover

Operational Environment

Operating Humidity	20% ~ 95% RH non-condensing
Operating Temperature Range	-20°C to 70°C,Refer to Derating Curve
Storage Temperature Range	-40°C to 85°C
Storage Humidity	10% ~ 95% RH
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500V DC / 25oC / 70% RH
MTBF	200000 h

Approvals	
Safety Regulations	UL508/EN62368-1/BS62368-1
Withstand Voltage	1/P-O/P:3KVAC 1/P-FG:2KVAC O/P-FG:0.5KVAC
EMC Emissions	Compliance to BS EN/EN55032 , BS EN/EN61000-3-2,-3
EMC Immunity	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, BS EN/EN61000-6-2 UBS EN/EN50082-2) BS EN/EN61204-3, heavy industry level

Note:

- 1.All parameters NOT specially mentioned at 230VAC input, rated load and 25°C of ambient temperature.
- 2.Ripple&noise are measured from peak to peak with band width limit of 20MHzU0.1uF and 47uF/50V parallel capacitor under DC output full load, AC nominal input 25°C ambient temperature).
- 3.1nstallation clearances: top with 40mm, bottom with 20mm, left and right with 5mm. 1ncrease the space to 10-15mm when the adjacent device is heating source.
- 4. Derating may be needed under low input voltage. Please check the derating curve for more details.
- 5. Efficiency test after 30 minutes of burn-in.
- 6.The ambient temperature derating of 3.5 °C/1000m for operating altitude higher than 2000mU6500ft).

Mechanicai	S	pecii	ricat	ions
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Housing Material	Fully Enclosed Plastic Case
Overall Dimensions	85.5 x 125 x 129 mm (LxWxH)
Overall Length	85.5mm / 3.37in
Overall Width	125mm / 4.92in
Overall Height	129mm / 5.08in
Weight	1.5kg

Packaging

Carton Size	49 x 34.5 x 16.5cm / 19.29 x 13.58 x 6.5in
Carton Size	49 X 34.5 X 16.5CIII / 19.29 X 13.56 X 6.5III
Master Carton Quantities	8pcs / Carton







