

## **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
- Protection: Overload/Over voltage/Short circuit



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	Output Power W	Efficiency %	Ripple & Noise mVp-p
56YSDN480-24020000	24	20	480	92	150
56YSDN480-48010000	48	10	480	92	160

eneral 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



# **56YSD480-xy DIN Rail Series**

Up to 480 Watt

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

### **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 heat 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).



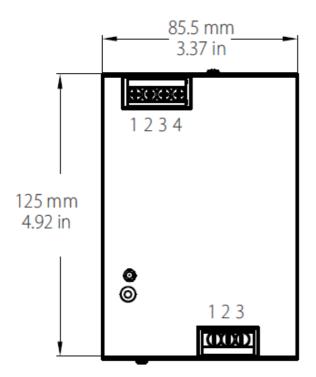
### **Mechanical Specifications**

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
Master Carton Quantities	8pcs / Carton

# Mechanical Drawing 129 mm 5.08 in



# Input

Pin No.	Description
1	FG ⊕
2	AC/N or DC -
3	AC/L or DC +

## Output

Pin No.	Description
1,2	DC OUTPUT -V
3,4	DC OUTPUT+V



