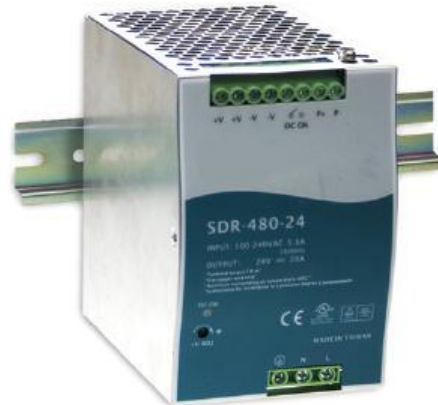


# 480 Watt, SDR Series, Slim Line DIN Rail Power Supply

**ALL PSU LTD**  
Electronic Power Solutions

- Universal AC Input
- High Efficiency 94%, High Reliability
- Wide Temperature Range -25 to +70 °C
- Built In DC OK Relay Contact
- Power On LED, Output Voltage Trim
- Over Load, Over Voltage, Overtemp Protected
- Full Approvals: UL/cUL/TUV/CE/CB
- 3 Year Warranty
- 150% Peak Load Capability (3 seconds)
- Compact 85.5 mm Wide Metal Case
- Parallel / Redundancy Option, SDR-480P



Size: 85.5(W) x 125.2(H) x 128.5(D) mm

## Specification

Input Voltage (Universal).....	90~264 VAC, 127~370 VDC
Input Frequency.....	47~63 Hz
Inrush Current.....	Cold start, 40A @ 115 VAC, 80A @ 230 VAC
Input Current.....	5 A @ 115 VAC, 2.5 A @ 230 VAC
Power Factor.....	>0.94 @ 230VAC, 0.99 @ 115 VAC (full load)
Load Regulation.....	+/-1.0%
Line Regulation.....	+/-0.5%
Leakage Current.....	<0.8 mA @ 240 VAC
Output Voltage.....	See table below
Over Load Protection.....	>150-170% constant current limiting (auto-recovery) Between 110~150%, unit will delivery power for 3 seconds then shuts down O/P (auto-recovery)
Over Voltage Protection.....	Shuts down O/P voltage (auto-recovery)
Overtemp Protection.....	105 °C +/-5 °C output shuts down, (auto-recovery)
Set Up, Rise Time.....	1500 ms, 150 ms @ 230 VAC full load
Hold Up Time.....	14 ms @ 230 VAC (full load)
Isolation Voltage.....	I/P-O/P: 3 kVAC, I/P-F/G: 1.5 kVAC, O/P-Gnd: 0.5 kVAC
Operating Temperature.....	-25~+70 °C (see derating curve)
Safety Standards.....	UL508, TUV EN60950-1,
EMC Standards.....	EN55022 (CISPR22) Class B EN61000-3-2, 3. EN55024, EN61000-6-2 (EN50082-2) EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204 EN61204-3 heavy industry level, criteria A, SEMI F47
Dimensions.....	128.5(D) x 85.5(W) x 125.2(H) mm
MTBF.....	112.9 khrs (MIL-HDBK-217F) @ 25 °C
Weight.....	1.6 kg

## Models and Ratings

Model	Output	Adj. Range	Ripple/Noise	Efficiency
SDR-480-24	24.0 V / 20.0 A	24 V ~ 28 V	100 mV	94%
SDR-480-48	48.0 V / 10.0 A	48 V ~ 55 V	120 mV	94%

### Notes:

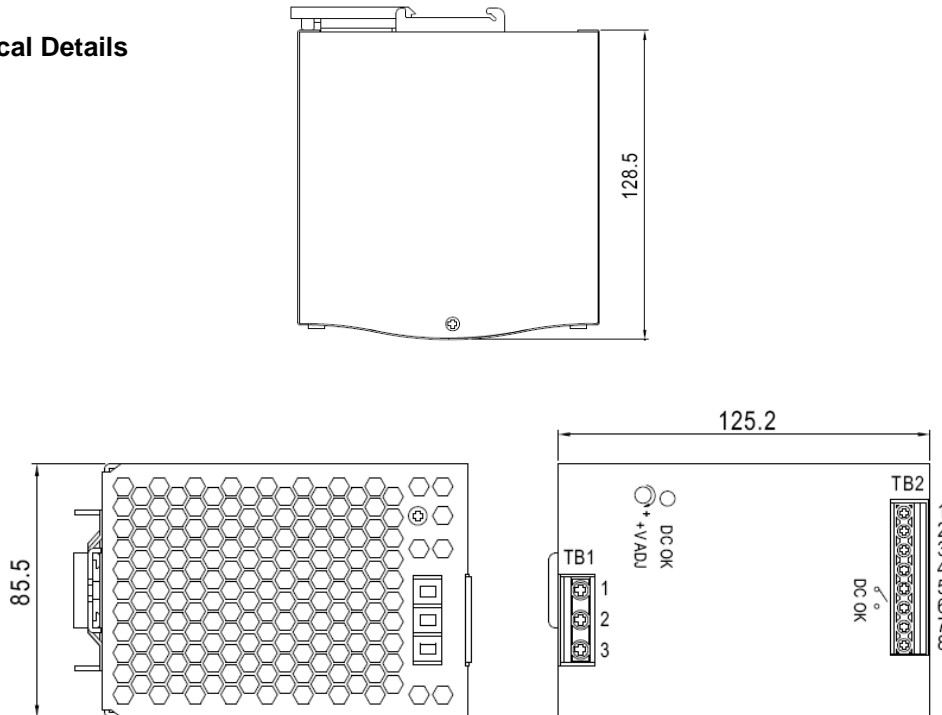
A clearance of 40mm is recommended above the unit and 20mm below (5mm either side) if the unit is to be used permanently on full load.

Parallel or Redundancy option is available with model code SDR-480P, contact ALL PSU for details.

Please see next page for mechanical drawings, connections and derating curves

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## Mechanical Details



## Pinout

Input Connector (TB1)	
Pin	Function
1	Gnd.
2	AC Neutral
3	AC Live

Output Connector (TB2)	
Pin	Function
1, 2	+V Out
3, 4	-V Out
5, 6	Relay Contact
7,8	NC

## DC OK Relay:

Contact closed when the output voltage reaches the adjusted output voltage  
 Contact opens when the output voltage drops below 90% of the adjusted output voltage  
 Contact rating is 30V/1A max. (resistive load)

## Derating Curves:

