



■ Features :

- High efficiency 94% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.94
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty



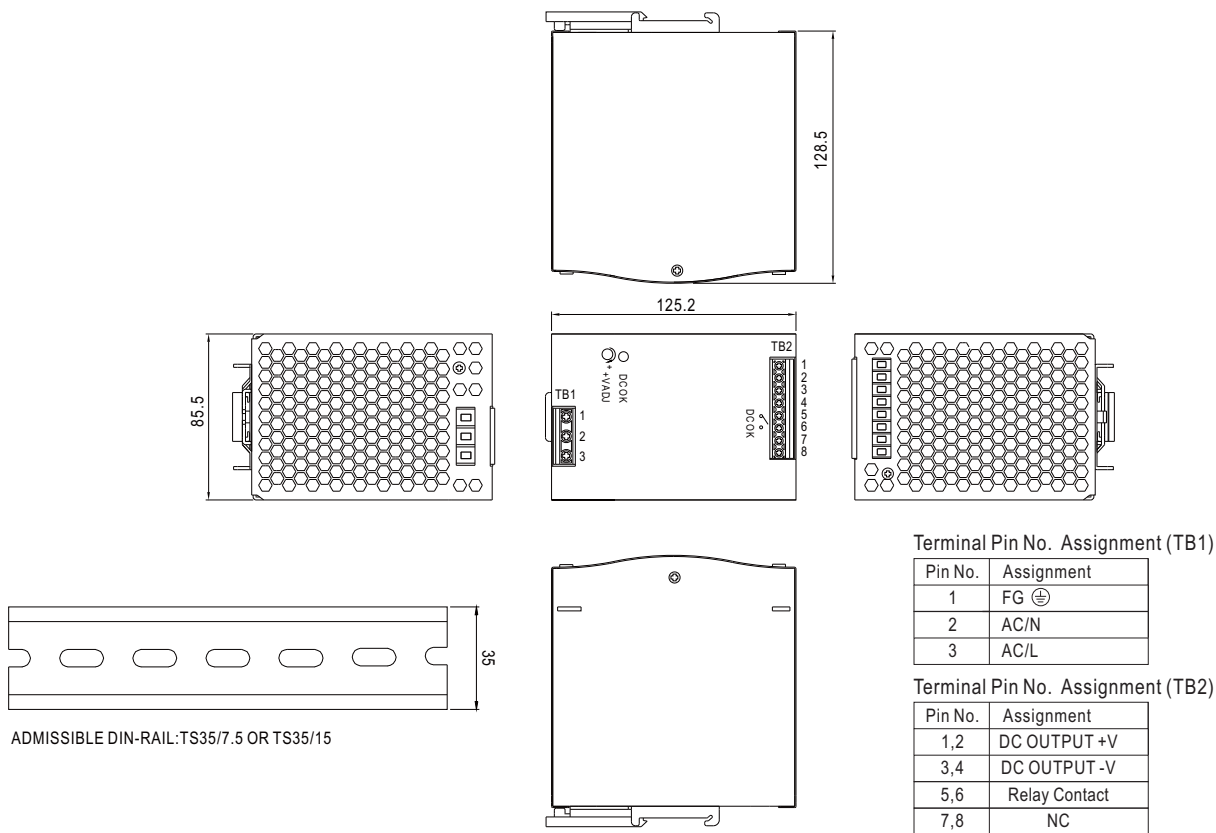
SPECIFICATION

MODEL		SDR-480-24		SDR-480-48		
OUTPUT	DC VOLTAGE	24V		48V		
	RATED CURRENT	20A		10A		
	CURRENT RANGE	0 ~ 20A		0 ~ 10A		
	RATED POWER	480W		480W		
	PEAK CURRENT	30A		15A		
	PEAK POWER	Note.6	720W (3sec.)			
	RIPPLE & NOISE (max.)	Note.2	100mVp-p	120mVp-p		
	VOLTAGE ADJ. RANGE	24 ~ 28V		48 ~ 55V		
	VOLTAGE TOLERANCE	Note.3	± 1.2%	± 1.0%		
	LINE REGULATION	± 0.5%		± 0.5%		
	LOAD REGULATION	± 1.0%		± 1.0%		
	SETUP, RISE TIME	1500ms, 150ms/230VAC 3000ms, 150ms/115VAC at full load				
HOLD UP TIME (Typ.)	14ms/230VAC at full load					
INPUT	VOLTAGE RANGE	Note.7	90 ~ 264VAC	127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	0.94/230VAC		0.99/115VAC at full load		
	EFFICIENCY (Typ.)	94%				
	AC CURRENT (Typ.)	5A/115VAC		2.5A/230VAC		
	INRUSH CURRENT (Typ.)	40A/115VAC		80A/230VAC		
	LEAKAGE CURRENT	<0.8mA / 240VAC				
PROTECTION	OVERLOAD	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recovery >150% rated power, constant current limiting with auto-recovery within 2 seconds and may cause to shut down if over 2 seconds				
	OVER VOLTAGE	29 ~ 33V		56 ~ 65V		
		Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery				
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down				
FUNCTION	DC OK REALY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load				
ENVIRONMENT	WORKING TEMP.	Note.5	-25 ~ +70℃ (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT	± 0.03%/℃ (0 ~ 50℃)				
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6				
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL508, TUV EN60950-1, EAC TP TC 004 approved ; (meet EN60204-1)				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25℃ / 70% RH				
	EMC EMISSION	Compliance to EN55011, EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3, EAC TP TC 020				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A, EAC TP TC 020, SEMI F47, GL approved				
OTHERS	MTBF	112.9K hrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	85.5*125.2*128.5mm (W*H*D)				
	PACKING	1.6Kg; 8pcs/13.8Kg/0.9CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 6. 3 seconds peak power max. and the average output power should not exceed the rate power. 7. Derating may be needed under low input voltage. Please check the derating curve for more details. 8. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).					

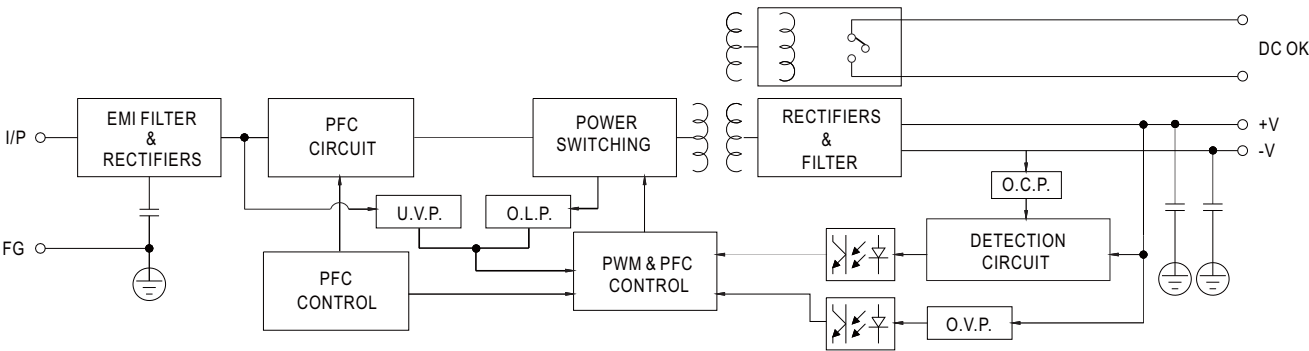
File Name:SDR-480-SPEC 2018-01-12

Mechanical Specification

Case No.984A Unit:mm



Block Diagram

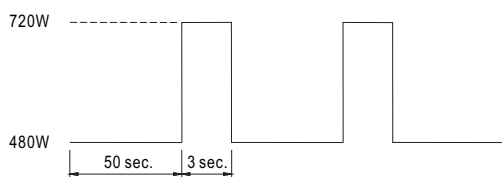


DC OK Relay Contact

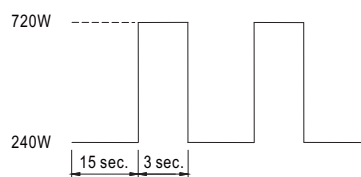
Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

■ **Peak Loading**

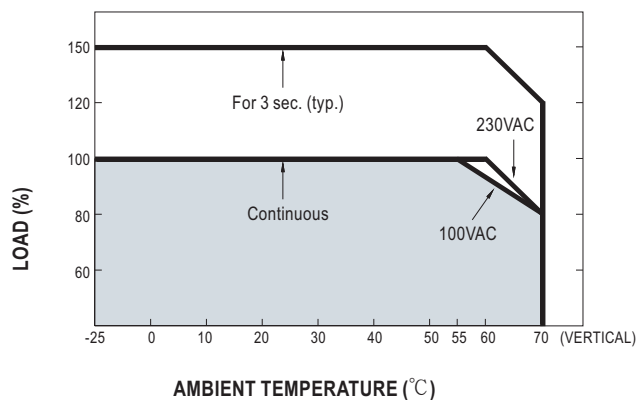
(1)



(2)



■ **Derating Curve**



■ **Output derating VS input voltage**

