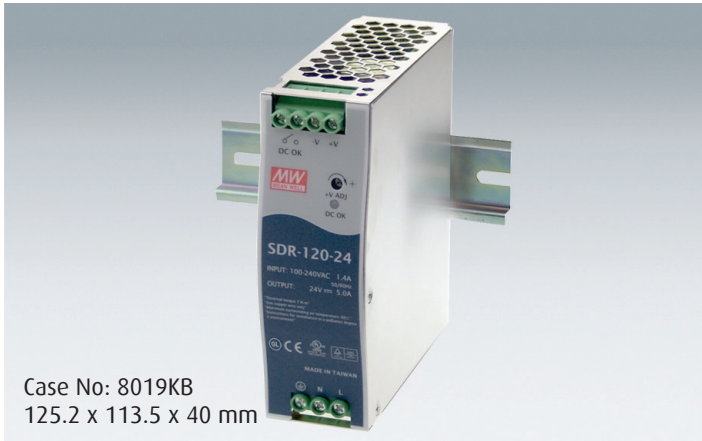


SDR-120 Series

120W Single Output Industrial DIN RAIL with PFC Function Power Supply



Case No: 8019KB
125.2 x 113.5 x 40 mm

Features

- High efficiency 91% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.93
- Protections: Short circuit / Overload / Over Voltage / Over Temperature
- Cooling by free air convection
- 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

INPUT	Voltage	88V ~ 264VAC 124 ~ 370VDC		
	Frequency	47 ~ 63 Hz		
	Power Factor	0.93/230VAC 0.96/115VAC at full load		
	Current	1.4A@115VAC 0.7A@230VAC		
	Inrush Current (Typ.)	35A@115VAC 70A@230VAC		
	Leakage Current	<1mA@240VAC		
	Efficiency	89% 91% 90.5%		
		MODEL No.	SDR-120-12	SDR-120-24
OUTPUT	Voltage	12V	24V	48V
	Rated Current	10A	5A	2.5A
	Current Range	0 ~ 10A	0 ~ 5A	0 ~ 2.5A
	Rated Power	120W	120W	120W
	Peak Current	15A	7.5A	3.75A
	Peak Power	180W (3sec)		
	Ripple Noise MAX	100mVp-p	100mVp-p	120mVp-p
	Voltage Adj. Range	12 ~ 14V	24 ~ 28V	48 ~ 55V
	Voltage Tolerance	± 1.0%	± 1.0%	± 1.0%
	Line Regulation	± 0.5%	± 0.5%	± 0.5%
	Load Regulation	± 1.0%	± 1.0%	± 1.0%
	Setup Rise Time	1500ms, 60ms / 230VAC 3000ms, 60ms / 115VAC at full load		
Holdup Time (Typ.)	20ms / 230VAC 20ms / 115VAC at full load			
PROTECTION	Overload	Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage >150% rated power, constant current limiting with auto-recovery within 3 seconds, and then shut down o/p voltage after 3 seconds		
	Over Voltage	14~17V	29~33V	56~65V
	Over Temperature	95° C ± 5° C (TSW) detect on heatsink of power switch Protection Type: Shut down o/p voltage, recovers automatically after temperature goes down		
FUNCTION	DC OK Relay contact ratings (max.)	60Vdc/0.3A, 30Vdc/1A, 30VAC/0.5A resistive load		
ENVIRONMENT	Working Temp.	-25~+70°C (Refer to "Derating Curve")		
	Working Humidity	20~95% RH non-condensing		
	Storage Temp., Humidity	-40~+85°C, 10~95%RH		
	Temp. Co-efficient	±0.03% / °C (0~50°C)		
	Vibration	Component: 10~500Hz, 2G 10min./1cycle, 60 min. each along X, Y, Z axes; mounting: Compliance to IEC60068-2-6		
SAFETY & EMC	Safety Standards	UL508, TUV EN60950-1 approved, (Meets EN60204-1)		
	Withstand Voltage	I/P-OP: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°C / 70%RH		
	EMC Emission	Compliance to EN55011, EN55022 (CISPR22). EN61204-3 Class B, EN61000-3-2,-3		
	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 SEMI F47, GL approved		
OTHERS	MTBF	289.9K hrs min. MIL-HDBK-217F (25°C)		
	Packaging	0.67Kg; 20pcs/14.4Kg/1.16CUFT		

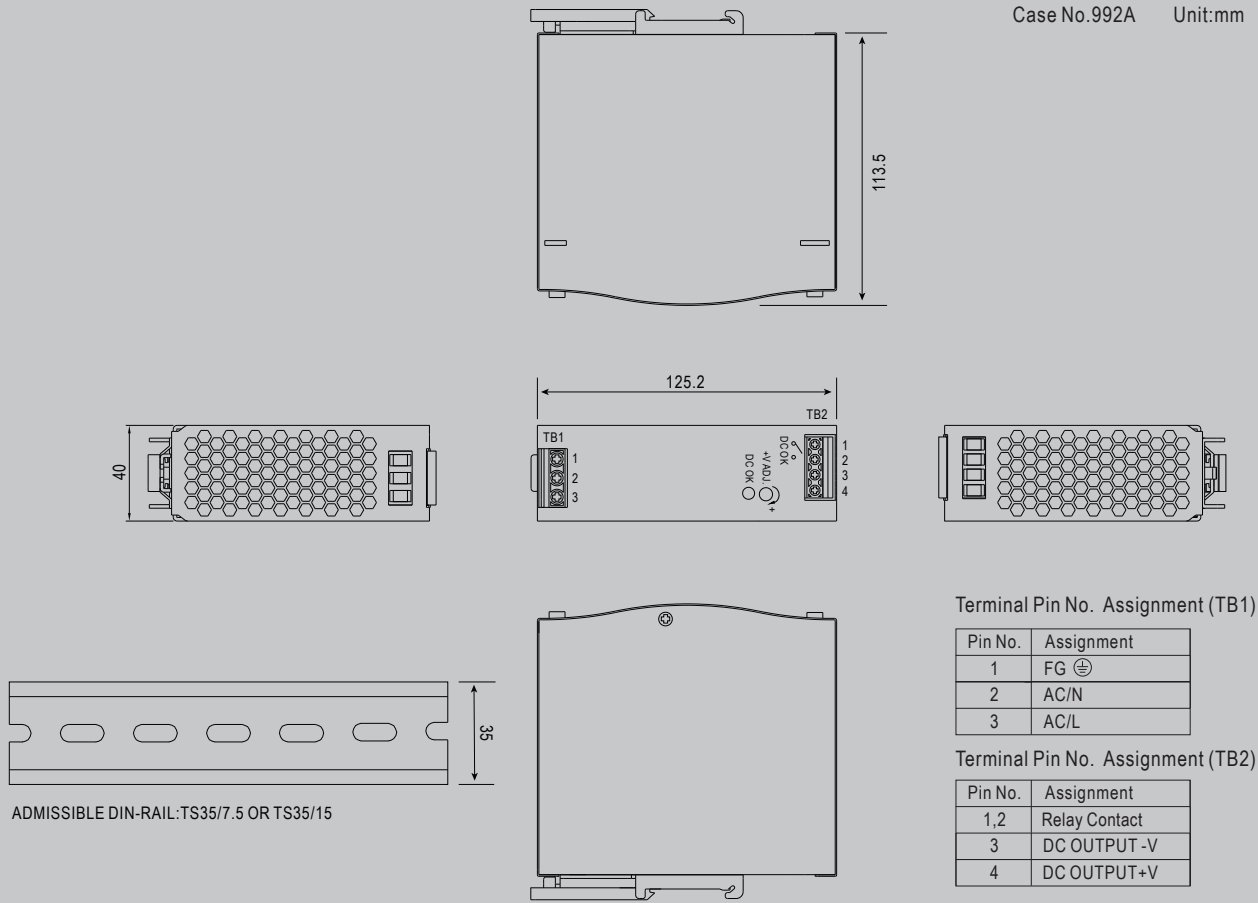
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
3. Tolerance: includes set up tolerance, line 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.
6. 3 seconds max, please refer to peak loading curves.
7. Derating may be needed under low input voltage. Please check the derating curve for more details.

SDR-120 Series

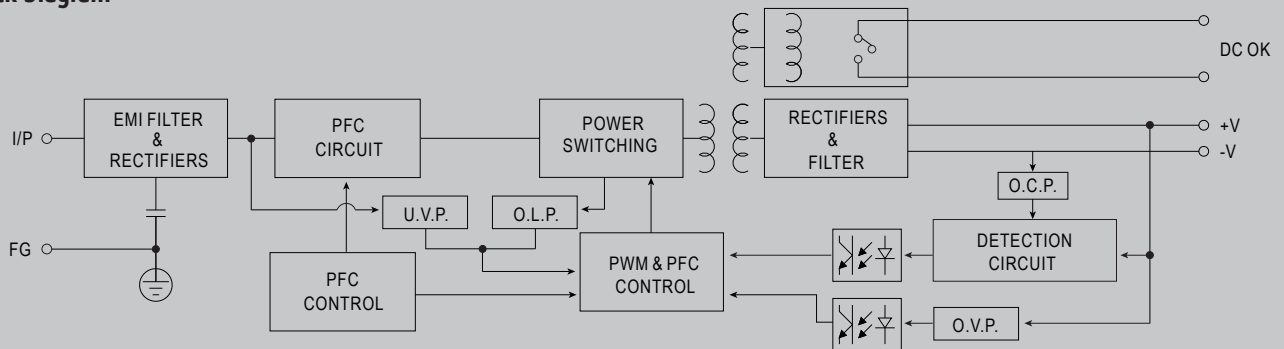
120W Single Output Industrial DIN RAIL with PFC Function
Power Supply

Mechanical Specification

Case No.992A Unit:mm



Block Diagram

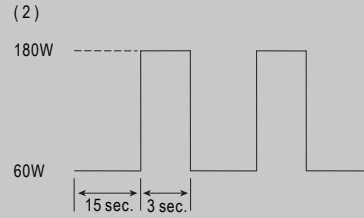
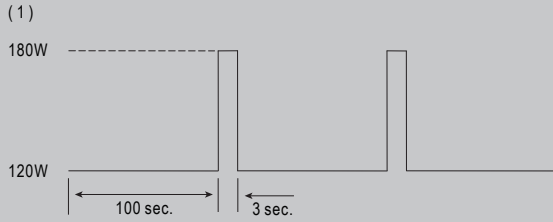


Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

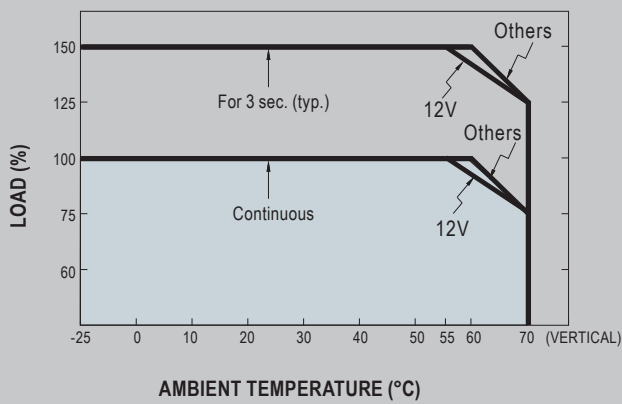
SDR-120 Series

120W Single Output Industrial DIN RAIL with PFC Function
Power Supply

Peak Loading



Derating Curve



Output derating VS input voltage

