



■ Features :

- Built-in active PFC function, PF>0.93
- High efficiency 93% and low power dissipation
- 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
- 150% peak load capability
- 3 years warranty

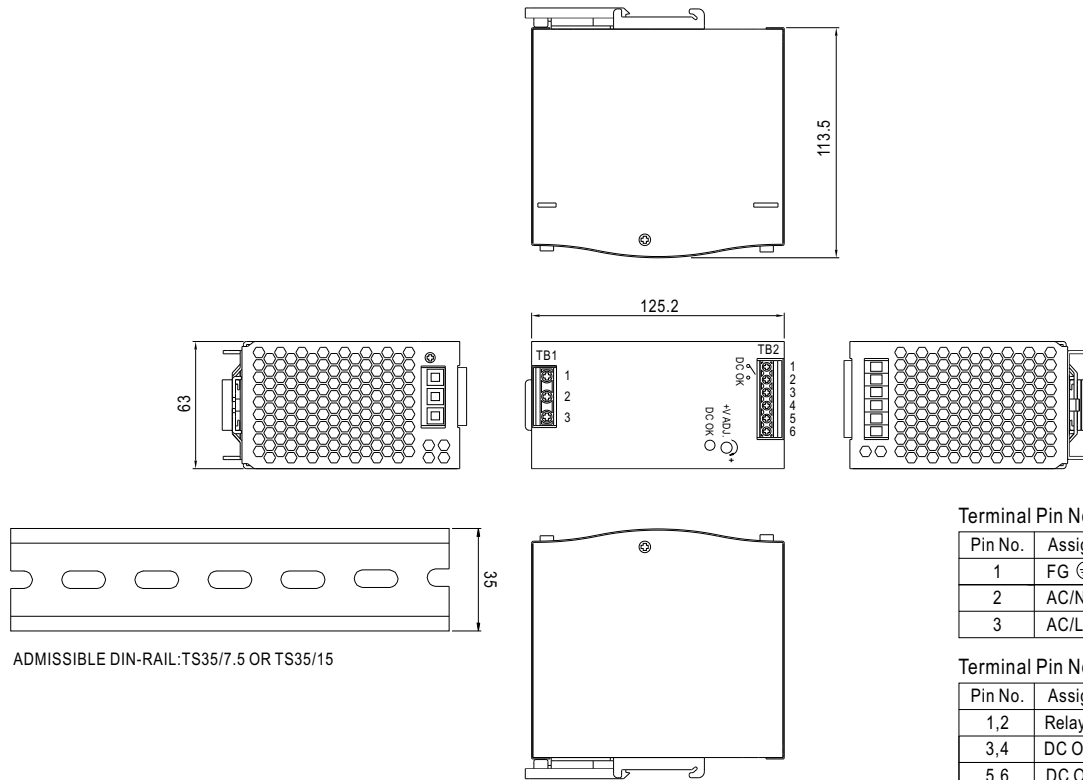


**SPECIFICATION**

MODEL	SDR-240-24		SDR-240-48	
OUTPUT	DC VOLTAGE	24V		
	RATED CURRENT	10A		
	CURRENT RANGE	0 ~ 10A		
	RATED POWER	240W		
	PEAK CURRENT	15A		
	PEAK POWER Note.6	360W (3sec.)		
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V		
	VOLTAGE TOLERANCE Note.3	±1.0%		
	LINE REGULATION	±0.5%		
	LOAD REGULATION	±1.0%		
	SETUP, RISE TIME	1500ms, 60ms/230VAC    3000ms, 60ms/115VAC at full load		
HOLD UP TIME (Typ.)	20ms/230VAC at full load			
INPUT	VOLTAGE RANGE	88 ~ 264VAC    124 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	0.92/230VAC    0.99/115VAC at full load		
	EFFICIENCY (Typ.)	93%		
	AC CURRENT (Typ.)	2.6A/115VAC    1.3A/230VAC		
	INRUSH CURRENT (Typ.)	31A/115VAC    62A/230VAC		
LEAKAGE CURRENT	<1mA/ 240VAC			
PROTECTION	OVERLOAD	Normally works within 110 ~ 150% rated output power for 3 sec and then shut down o/p voltage with auto-recovery 150 ~ 170% rated power or short circuit, constant current limiting within 3 sec and then 88 ~ 132VAC : Shut down o/p voltage with auto-recovery. 180 ~ 264VAC : Shut down o/p voltage, re-power on to recover		
	OVER VOLTAGE	29 ~ 33V	56 ~ 60V	
	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 REALY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vdc/0.5A resistive load		
ENVIRONMENT	WORKING TEMP. Note.5	-25 ~ +70°C (Refer to output load derating curve)		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C )		
	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 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC    I/P-FG:1.5KVAC    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		
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B		
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3		
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A, SEMI F47 criteria A, GL approved		
	MTBF	169.3Khrs min.    MIL-HDBK-217F (25°C)		
	DIMENSION	63*125.2*113.5mm (W*H*D)		
	PACKING	1.03Kg; 12pcs/13.4Kg/1.06CUFT		
NOTE	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>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.</li> <li>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.</li> <li>6. 3 seconds or 20% duty cycle max. and the average output power should not exceed the rate power.</li> <li>7. Derating may be needed under low input voltage. Please check the derating curve for more details.</li> </ol>			

## Mechanical Specification

Case No. 979A Unit:mm



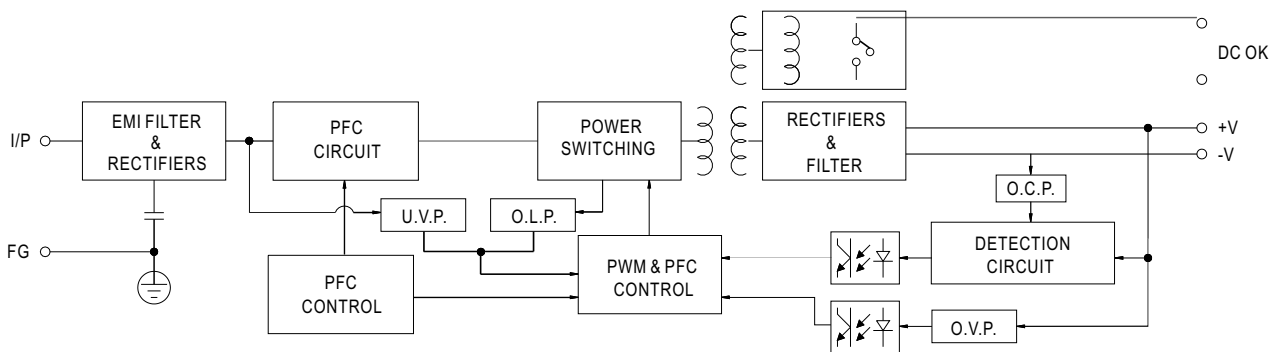
Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG ⊕
2	AC/N
3	AC/L

Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1,2	Relay Contact
3,4	DC OUTPUT +V
5,6	DC OUTPUT -V

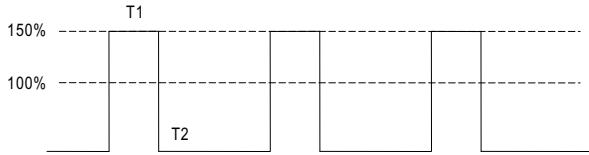
## Block Diagram



## DC OK Relay Contact

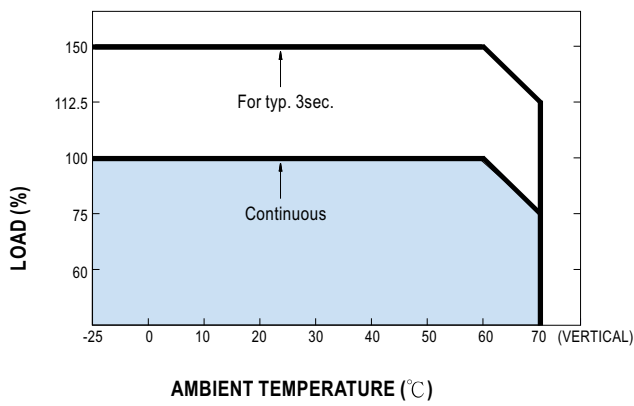
Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop below 90% output voltage.
Contact Ratings (max.)	30V/1A resistive load

■ **Peak Loading**



Peak load (T1)	Full load or 50% load(T2)
360W / 3 sec.	240W / 100 sec.
360W / 3 sec.	120W / 10 sec.

■ **Derating Curve**



■ **Output derating VS input voltage**

