



- High efficiency 94% 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
- 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



Model Number	Output Volts	Output Amps	Min Load	OVP	Peak Current	Ripple & Noise	DC Volt Adjust
SINGLE OUTPUT							
SDR240-24	24 Volts(DC)	10 Amps	0~10Amps	29~33 Volts(DC)	15 Amps	100mVpk-pk	24~28Volts(DC)
SDR240-48	48 Volts(DC)	5 Amps	0~5Amps	56~65 Volts(DC)	7.5 Amps	120mVpk-pk	48~55Volts(DC)

240W Single Output Industrial DIN RAIL with PFC Function

SDR240 series

INPUT SPECIFICATIONS

Input Voltage Range	90~ 264VAC 124~370 Volts(DC)
Frequency Range	47-63 Hz
Inrush Current, typ: (cold start)	33Amps /115VAC; 65Amps/ 230VAC
Input Current	2.6Amps/ 115VAC;1.3Amps/ 230VAC
Leakage current	< 1mAmps / 240VAC
Min Load	See Selection Chart
Power Factor @ FL	PF= 0.93 / 230VAC: 0.99 / 115VAC

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	±0.5%
Load Regulation	±1.0%
Voltage Tolerance (Note 2)	±1.0%
Ripple/Noise (Note 1)	See Selection Chart
Hold Up Time @ FL	20mS/230VAC; 20mS/115VAC
Setup, Rise Time @ FL	1500mS, 60mS/230VAC 3000mS, 60mS/115VAC
Over Voltage Protection	See Selection Chart Shut down o/p voltage, auto-recover
Over Current Protection	110 ~ 150% rated output power >3S shut down o/p voltage ,auto-recover >150% rated power, constant current limiting, auto-recover within 2S and may cause to shut down if over 2 seconds
Over Temperature Protection	95°C ±5°C (TSW: Detect on heatsink of power switch) Shut down o/p voltage, auto-recover after cool down
DC Volt Adjust	See Selection Chart
Peak Current	See Selection Chart
Peak Power (Note 4)	360W (3sec.)

GENERAL SPECIFICATIONS

Safety	UL508, TUV EN60950-1 Approved
Insulation Resistance	≥ 100MΩ/ 500Volts(DC)/25°C/70% RH
EMI	Compliance to EN55022B (CISPR22B)
Harmonic Current	Compliance to EN61000-3-2,-3

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

Efficiency (Note6)	94%
Isolation	3000VAC Input - Output 1500VAC Input - Ground 500VAC Output - Ground 500VAC Output - DC OK
EMS	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61204-3 EN61000-6-2 (EN50082-2), heavy Industry Level, Criteria A SEMI F47, GL approved
DC OK Realy Contact Ratings (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature (Note 3)	-25°C to +70°C with cooling FAN
Storage Temperature	-20°C to +85°C, 10~95% RH
Relative Humidity	20~95% RH non cond
Temperature Coefficient	±0.03% / °C (0-50°C)
MTBF	169.3KHrs min,MIL-HDBK-217F(25°C)
Vibration	10~500Hz, 2G10min./1cycle, period for 60min. each along X, Y, Z axes Mounting: Compliance to IEC60068-2-6

PHYSICAL SPECIFICATIONS

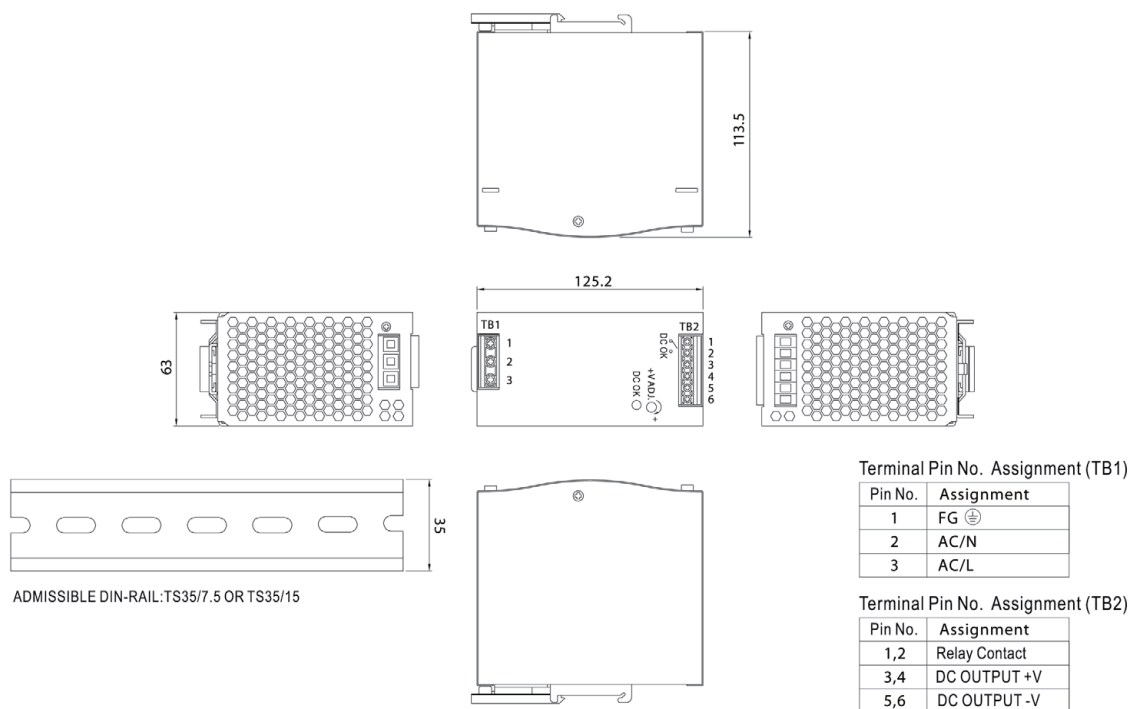
Size	
Millimeters	63 x 125.2 x 113.5
Inches	2.48" x 4.93" x 4.47"
Weight	36.33 oz (1030g)

NOTE

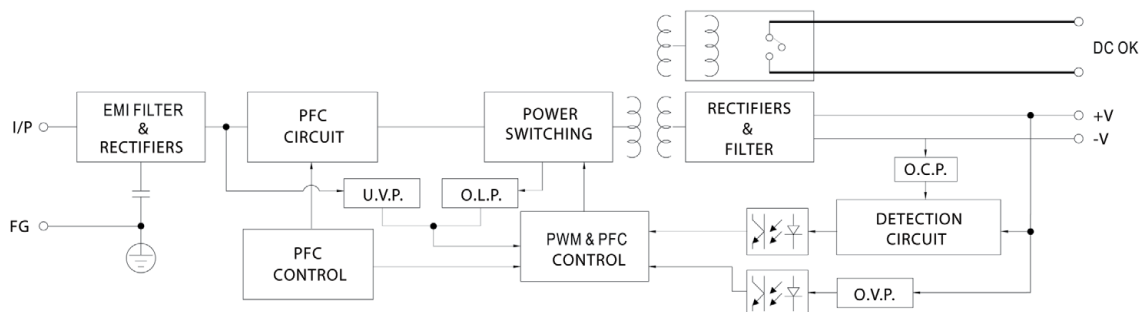
1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
2. Tolerance : includes set up tolerance, line regulation and load regulation.
3. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.
4. 3 seconds max., please refer to peak loading curves.
5. Derating may be needed under low input voltage. Please check the derating curve for more details.
6. After 30 min. of burn-in.

■ Mechanical Specification

Case No. 979A Unit:mm



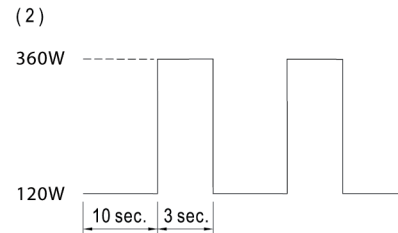
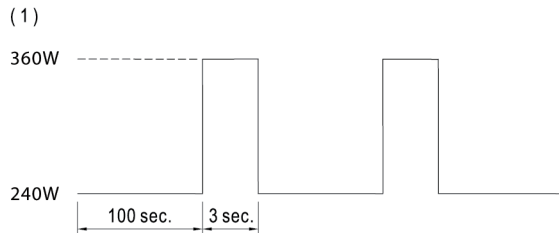
■ Block Diagram



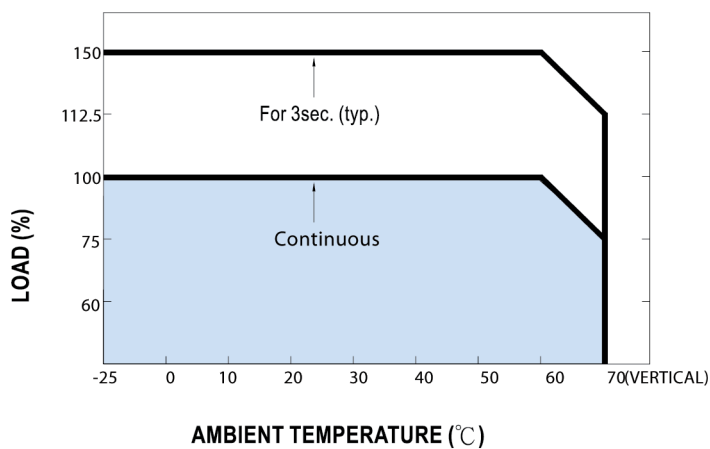
■ DC OK Relay Contact

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**



■ **Derating Curve**



■ **Output derating VS input voltage**

