



■ Features :

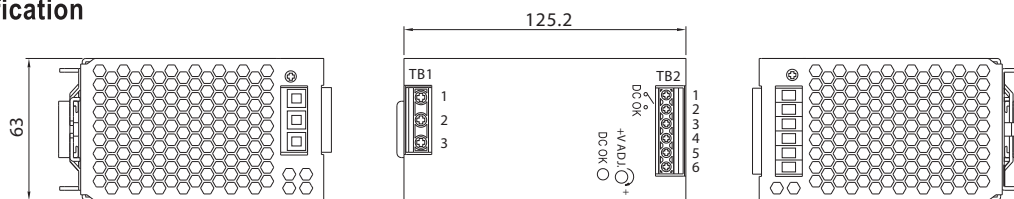
- Built-in active PFC function, PF>0.93
- High efficiency 93% and low power dissipation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial 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	PS-C240-24	PS-C240-48
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
	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
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 Protection type : Shut down o/p voltage with auto-recovery
	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
	DC OK RELAY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/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	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"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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 or 20% duty cycle 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. 	

Mechanical Specification



Terminal Pin No. Assignment (TB1)

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

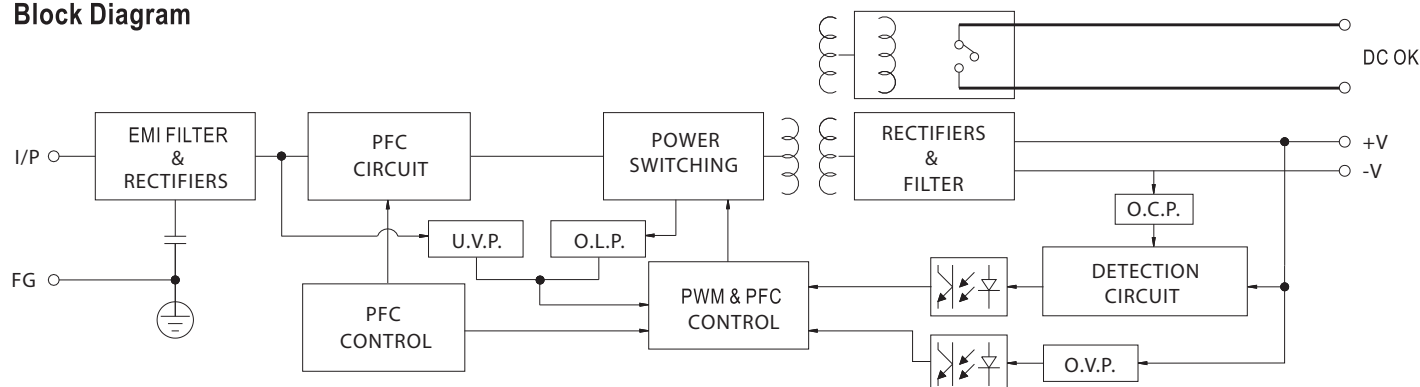
Terminal Pin No. Assignment (TB2)

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

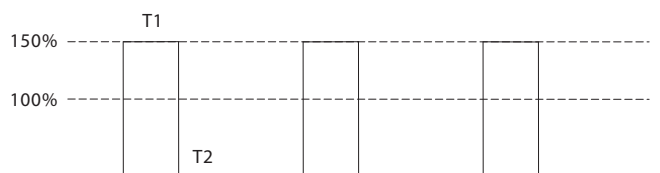
DC OK Relay Contact

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

Block Diagram

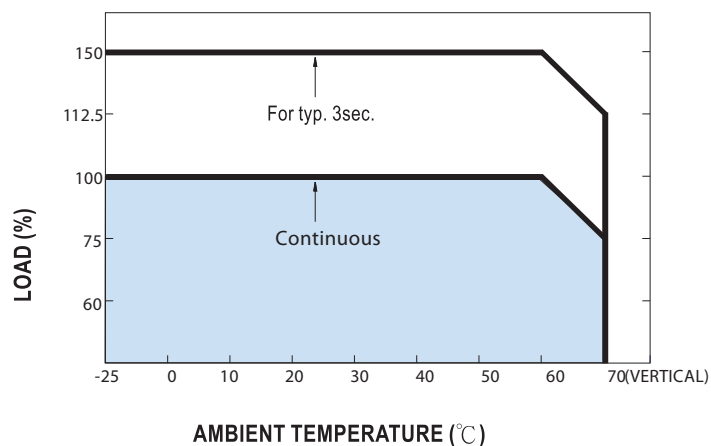


Peak Loading

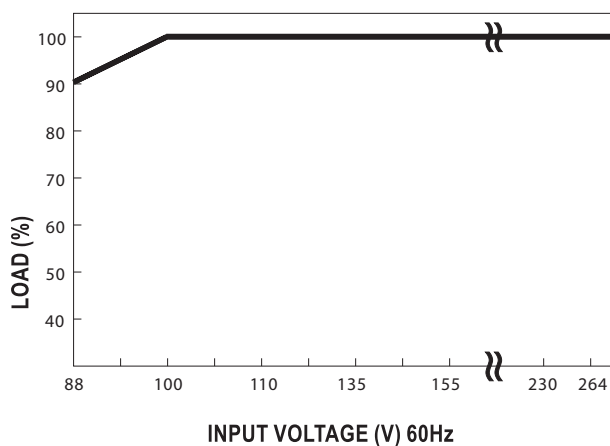


Peak load (T1)	Full load or 50% load(T2)
360W / 3 sec.	240W / 100 sec.
360W / 3 sec.	120W / 10 sec.

Derating Curve



Output derating VS input voltage



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