

240W Single Output Industrial DIN Rail Power Supply with PFC Function

PS-C240 Series



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







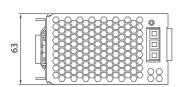
MODEL	ATION	PS-C240-24	PS-C240-48	
WODLL	DOVOLTAGE			
	DC VOLTAGE	24V	48V	
	RATED CURRENT	10A	5A	
	CURRENT RANGE	0 ~ 10A	0 ~ 5A	
	RATED POWER	240W	240W	
	PEAK CURRENT	15A	7.5A	
	PEAK POWER Note.6	360W (3sec.)		
OUTPUT	RIPPLE & NOISE (max.) Note.2		120mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3		±1.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	
	SETUP, RISE TIME	1500ms, 60ms/230VAC 3000ms, 60ms/115VAC a	at full load	
	HOLD UP TIME (Typ.)	20ms/230VAC at full load		
	VOLTAGE RANGE	88 ~ 264VAC 124 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	0.92/230VAC 0.99/115VAC at full load		
INPUT	EFFICIENCY (Typ.)	93%		
	AC CURRENT (Typ.)	2.6A/115VAC 1.3A/230VAC		
	INRUSH CURRENT (Typ.)	31A/115VAC 62A/230VAC		
	LEAKAGE CURRENT	<1mA/240VAC		
		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		
	OVERLOAD	with auto-recovery. 180 ~ 264VAC : Shut down o/p voltage, re-power on to recover		
PROTECTION		29 ~ 33V	56 ~ 60V	
	OVER VOLTAGE	Protection type: Shut down o/p voltage with auto-reco	verv	
	OVER TEMPERATURE	95° C ±5°C (TSW : detect on heatsink of power switch)		
		Protection type : Shut down o/p voltage, recovers autor	matically after temperature goes down	
FUNCTION	DC OK REALY CONTACT RATINGS (max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load		
	WORKING TEMP. Note.5	-25 ~ +70°C (Refer to output load derating curve)		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
ENVIRONMENT.	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH		
LITTINOTUNEITI	TEMP. COEFFICIENT			
	VIBRATION	±0.03%/°C (0 ~ 50°C) Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting; Compliance to IEC60068-2-6		
	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		
C A F F T \ / 0	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C		
SAFETY &	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B		
EMC (Note 4)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3		
(************	TIARMONIO CORRENT	Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level		
	EMS IMMUNITY	criteria A, SEMI F47 criteria A, GL approved	r, EN33024, EN01000-0-2 (EN30002-2), EN01204-3, Heavy illuustiy levi	
	MTBF	169.3Khrs min. MIL-HDBK-217F (25°C)		
OTHERS	DIMENSION	63*125.2*113.5mm (W*H*D)		
	PACKING	1.03Kg; 12pcs/13.4Kg/1.06CUFT		
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. Installation clearances : 40r In case the adjacent device	ially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Irred at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. In tolerance, line regulation and load regulation. In tolerance, line regulation and load regulation. In tolerance, line regulation and load regulation. In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still meets In the final equipment must be re-confirmed that it still mee		

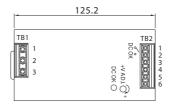


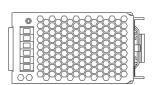


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Mechanical Specification

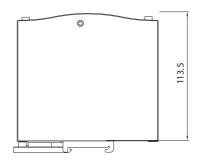






Terminal Pin No. Assignment (TB1)

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



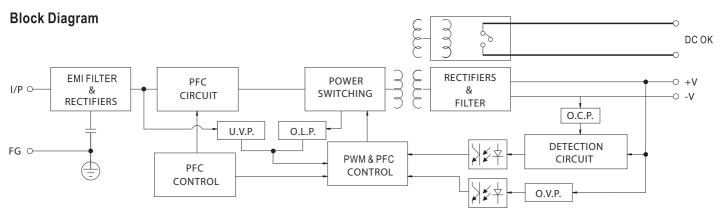
Terminal Pin No. Assignment (TB2)

PS-C240 Series

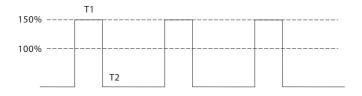
Pin No.	Assignment
1,2	Relay Contact
3,4	DC OUTPUT +V
5,6	DC OUTPUT -V

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

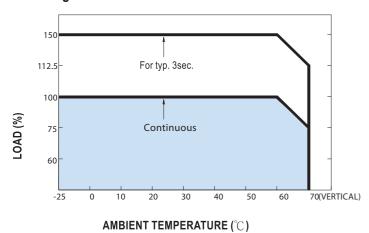


Peak Loading

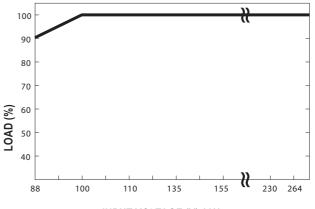


Peak load (T1)	Full load or 50% load(T2)
360W/3 sec.	240W / 100 sec.
360W/3 sec.	120W / 10 sec.

Derating Curve



Output derating VS input voltage



INPUT VOLTAGE (V) 60Hz