

PSC-241 Series













Features:

- Universal AC input (88-264V AC)
- High efficiency 92% and low power dissipation
- Installed on DIN rail TS-35 / 7.5 or 15
- Built-in active PFC function, PF > 0.95
- 150% peak load capability
- 100% full load burn-in test
- Protection: SCP, OLP, OVP, OTP
- Two selectable peak load modes
- Built-in DC OK Relay contact
- · Built-in Remote ON / OFF function
- 3 years warranty
- UL 508

OUTPUT

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PROTECTION

ENVIRONMENT

SAFETY & EMC

OUTPUT

	Cat. No.	PSC-24124	PSC-24148	
	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	360W (3sec.) Two selectable peak load modes		
		3 seconds or 20% duty cycle Max. The average output power should not exceed the rate power.		
	RIPPLE & NOISE (max)	150mVp-p	300mVp-p	
			12" twisted pair-wire terminated with a 0.1μF & 47μF parallel capacito	
	VOLTAGE ADJ. RANGE	-2% ~ +8%	-2% ~ +8%	
	VOLTAGE TOLERANCE	±1.0%	±1.0%	
		Tolerance: includes set up tolerance, line regulation and loa	Control of the contro	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	
	SETUP, RISE TIME	700ms, 30ms / 230VAC / 115VAC at full load	1	
	HOLD UP TIME (Typ.)	20ms / 230VAC; 20ms / 115VAC at full load		
	VOLTAGE RANGE	88 ~ 264VAC; 124 ~ 373VDC		
		Derating may apply in low input voltage. Please check the	derating curve for more details.	
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	0.96 / 230VAC; 0.96 / 115VAC at full load		
	EFFICIENCY (Typ.)	91%	92%	
	AC CURRENT (Typ.)	2.6A / 115VAC; 1.3A / 230VAC		
	INRUSH CURRENT (Typ.)	33A / 115VAC; 65A / 230VAC		
	LEAKAGE CURRENT	<1mA/ 240VAC		
	OVERLOAD	105% ~ 150% rated output power for 3 sec and then shutd	down in O/P with auto-recovery.	
		150% or greater rated power or short circuit is constant cu		
		If O/P drops to 40% output then it auto-recover 5 times; if fault condition is not removed		
		during auto recovery, the system will shut down and needs		
	OVER VOLTAGE	28 ~ 33V	56 ~ 65V	
	OVED TEMPEDATURE	Protection type: Shut down 0/P voltage with auto-recovery		
	OVER TEMPERATURE	95 ±5°C (TSW: detect on heatsink of power Protection type: Shut down o/p voltage, recovers automatic:		
	WODKING TEMP			
	WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve) 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.		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing	•	
	STORAGE TEMP. / HUMIDITY	-40 ~ +85°C; 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03% °C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. ea	ich long X,Y, Z axes	
	CAFETY OTANDADES		•	
	SAFETY STANDARDS	UL508, TUV EN60950-1	E/O 7071/DO 0/D DO 01/ 7071/DO	
	WITHSTAND VOLTAGE	I/P-0/P: 4242VDC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG; O/P-FG: > 100M Ohms / 500VDC / 25°C / 70% RH		
	EMI CONDUCTION & RADIATION	EN55022:2006 Class B		
	HARMONIC CURRENT	EN61000-3-2: 2006 Class A, ENG1000-3-3: 1995+A1: 2001+A2: 2005		
ч	EMS IMMUNITY	EN61204-3: 2000, EN55024: 1998+A1: 2001+A2: 2003 light industry level, criteria A		
		The power supply is considered a component which will ins re-confirmed that it still meets EMC directives.	stalled into a final equipment. The final equipment must be	
	DO OV DELAY CONTACT DATINGS		ishiya laad	
	DC OK RELAY CONTACT RATINGS (max)	60VDC / 0.3A, 30VDC / 1A, 30VAC / 0.5A res	istive toad	
	MTBF	57K HRS (MIL-HDBK-217F)		
	DIMENSION	65.8x125.2x117.7 mm (WxHxD)		
	PACKING	0.9kg; 12pcs / 12.8kg		
	COOLING	Free air convection	20140	

All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

PSC-241 Series



Mechanical Specification

Terminal Pin No. Assignment (TB1)

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

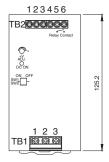
Terminal Pin No. Assignment (TB2)

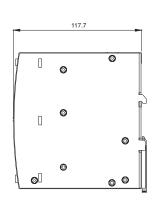
Pin NO.	Assignment
1	DC+
2	DC-
3	INH+
4	INH-
5,6	Relay Contact

Switch No. Assignment

	SW NO.	Assignment
ſ	SW1	PEAK LOAD SETTING
ſ	SW2	REMOTE ON/OFF SETTING

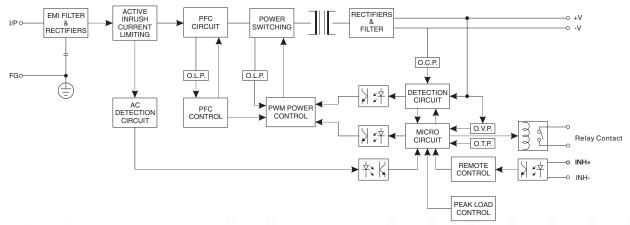
65.8





Unit: mm / inch

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 45% rated output voltage.
Contact Ratings(max.)	30V/1A resistive load

Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.

PSC Class 2 Series

PSA Flex Series

PSB FIEX Series

PS-S Slim Series

S Low Profile Ser

PS Industrial Series

PSC & W Series

CBI Type

CB Type Chargers

Accessoric

Appendix