



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

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
	$Ripple \& noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 \mu F \& 47 \mu F parallel capacitor.$	
VOLTAGE ADJ. RANGE	-2% ~ +8%	-2% ~ +8%
VOLTAGE TOLERANCE	±1.0%	±1.0%
	Tolerance: includes set up tolerance, line regulation and load regulation.	
LINE REGULATION	±0.5%	±0.5%
LOAD REGULATION	±1.0%	±1.0%
SETUP, RISE TIME	700ms, 30ms / 230VAC / 115VAC at full load	
HOLD UP TIME (Typ.)	20ms / 230VAC; 20ms / 115VAC at full load	

INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

OTHERS

VOLTAGE RANGE	88 ~ 264VAC; 124 ~ 373VDC	
	Derating may apply in low input voltage. Please check the de	

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

OVER VOLTAGE

OVERLOAD >150% rated power or short circuit is constant current limiting.

if o/p drop to 40% rating output voltage then shutdown and auto-recover 5 time, if fault condition not remove in this 5 time, the system well be shutdown and re-power on to recover

28 ~ 33V 56 ~ 65V

Protection type: Shut down O/P voltage with auto-recovery **OVER TEMPERATURE** 95 ±5°C (TSW: detect on heatsink of power diode)

Protection type: Shut down o/p voltage, recovers automatically after temperature goes down

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. each long X,Y, Z axes

SAFETY STANDARDS UL508, TUV EN60950-1

WITHSTAND VOLTAGE

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

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 installed into a final equipment. The final equipment must be

re-confirmed that is still meets EMC directives.

DC OK RELAY CONTACT RATINGS (max) 60VDC / 0.3A, 30VDC / 1A, 30VAC / 0.5A resistive load

57K HRS (MIL-HDBK-217F) **MTBF DIMENSION** 65.8x125.2x117.7 mm (WxHxD)

PACKING 0.9kg; 12pcs / 12.8kg **COOLING**

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



Altech Corp.

Unit:mm/inch

PSC-241 Series











ENERGY SAVER

Mechanical Drawings

Terminal Pin No. Assignment (TB1)

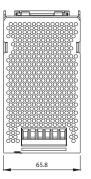
Pin NO.	Assignment
1	FG ⊕
2	AC/L
3	AC/N

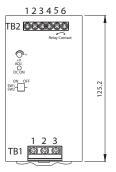
Terminal Pin No. Assignment (TB2)

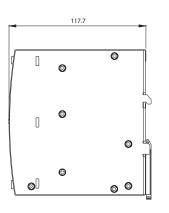
Pin NO.	Assignment
1	DC+
2	DC-
3	INH+
4	INH-
5,6	Relay Contact

Switch No. Assignment

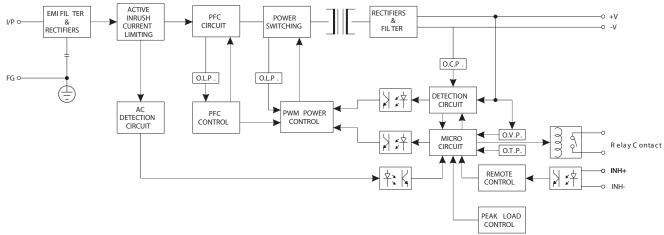
SW NO.	Assignment
SW1	PEAK LOAD SETTING
SW2	REMOTE ON/OFF SETTING







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

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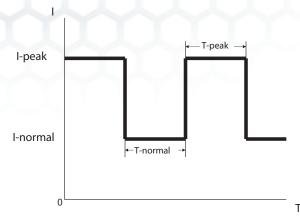




PSC-241 Series

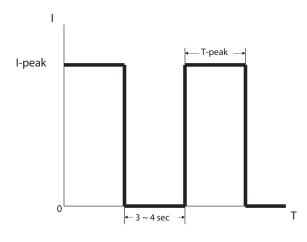


Peak Load SW1 ON (Mode1) Default setting

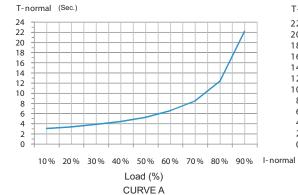


T-peak presents while the unit is working within 110%~150% Rating output power. See curve "B" for the variation in T-peak between output current and holdup time. If T-peak is more than the time setting in curve "B", the output current will drop to the constant current limit (I-normal) that is 105% rating power, meanwhile, I-normal and T-normal will be presenting. See curve "A" for the timing back to I-Peak of T-normal and this Mode can use for easy 2-stage battery charger.

Peak Load SW2 OFF (Mode2)



T-peak presents while the unit is working within 110%~150% Rating output power. See curve "B" for the variation in T-peak between output current and holdup time. If T-peak is more than the time setting in curve "B", the output current will be shut down for 3~4 sec, then auto-recovery.



T-peak (Sec.)

22
20
18
16
14
12
10
8
6
4
2
0
110% 115% 120% 125% 130% 135% 140% 145% 150% I-pe

110% 115% 120% 125% 130% 135% 140% 145% 150% I-peak Load (%)
CURVE B

For the latest on Altech Power Supplies please visit www.altechcorp.com/power.



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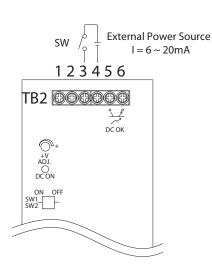
Altech Corp.

Remote ON/OFF

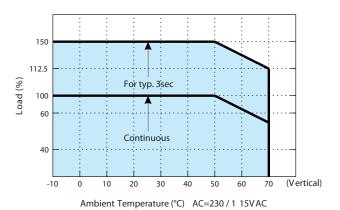
The PSU can be turned ON/OFF by using the "Remote Control" function.

SW2	INH+(3 PIN)/ INH-(4 PIN)	Output Status
OFF	SW ON (>2.5V)	ENABLE
OFF	SW OFF (<0.8V)	DISABLE
ON	SW ON (>2.5V)	DISABLE
ON	SW OFF (<0.8V)	ENABLE

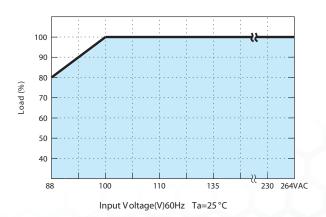
(De fault S etting)



Derating Curve



Output derating VS input coltage



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