

PSC-151 Series













Features:

- Universal AC input (88-264V AC)
- 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 modesBuilt-in DC OK Relay contact
- Built-in Remote ON / OFF function
- 3 years warranty
- UL 508

OUTPUT

INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

OTHERS

COOLING

	Cat. No.	PSC-15124	PSC-15148	
	DC VOLTAGE	24V	48V	
	RATED CURRENT	6.3A	3.2A	
	CURRENT RANGE	0~6.3A	0~3.2A	
	RATED POWER	150W	150W	
	PEAK CURRENT	9.45A	4.8A	
	PEAK POWER	225W (3sec.)	7.00	
	I LAICT OWEIT	3 seconds or 20% duty cycle max. and the average output power should not exceed the rate power.		
	RIPPLE & NOISE (max)	240mVp-p	480mVp-p	
	,		12" twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor.	
	VOLTAGE ADJ. RANGE	-2% ~ +8%	-2% ~ +8%	
	VOLTAGE TOLERANCE	±1.0%	±1.0%	
		Tolerance: includes set up tolerance, line regulation and loa	d regulation.	
	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.)	16ms / 230VAC; 16ms / 115VAC at full load		
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	VOLTAGE RANGE	88 ~ 264VAC; 124 ~ 373VDC	devoting curve for more details	
	EDECHENCY DANCE	Derating may apply in low input voltage. Please check the derating curve for more details.		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR(Typ.)	0.9 / 230VAC; 0.98 / 115VAC at full load	Lower	
	EFFICIENCY (Typ.)	87%	87%	
	AC CURRENT (Typ.)	2.6A / 115VAC; 1.3A / 230VAC		
	INRUSH CURRENT (Typ.)	33A / 115VAC; 65A / 230VAC		
	LEAKAGE CURRENT	<1mA/ 240VAC		
	OVER VOLTAGE OVER TEMPERATURE	Normally works within 105% ~ 150% rated output power in 0/P voltage with outo-recovery, > 150% rated power or shift o/p drop to 40% rating output voltage then shutdown an not remove in this 5 time, the system well be shutdown an 29 ~ 33V Protection type: Latch-off mode, repower on to recover. 95 ±5°C (TSW: detect on heatsink of power	ort circuit is constant current limiting, a auto-recover 5 time, if faul condition d re-power on to recover. $\mid 56 \sim 65 V$	
		Protection type: Shut down o/p voltage, recovers automatic	,	
	WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. / HUMIDITY TEMP. COEFFICIENT VIBRATION	-10 ~ +70°C (Refer to derating curve) Installation clearance: 40mm from top, 20mm from bottom, 5mm from 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. 20 ~ 95% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH ±0.03% / °C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min. / 1cycle, 60min. each along X, Y, Z axes		
	SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	UL 508 / TUV EN 60950-1 I/P-O/P: 4242VDC, I/P-FG: 2121VDC, O/P-FG: 707VDC, O/P-DC 0K: 707VDC I/P-O/P, I/P-FG, O/P-FG: >100M 0hms / 500VDC / 25°C / 70% RH EN55022 (CISPR22) Class B 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; criteria A, MEET SEMI F47		
	DC OK RELAY. CONTACT RATINGS (max)	The power supply is considered a component which will in re-confirmed that is still meets EMC directives. 60VDC / 0.3A, 30VDC / 1A, 30VAC / 0.5A res		
	MTBF	62.7K HRS (MIL-HDBK-217F)		
	DIMENSION	55.5x125.2x99.8 mm (WxHxD)		
	PACKING	0.9kg; 12pcs / 12.8kg		
	COOLING	From air convection		

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

Free air convection

Altech Corp.®

Unit:mm/inch















Mechanical Drawings

Terminal Pin No. Assignment (TB1)

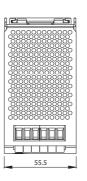
Pin NO.	Assignment
1	FG ⊕
2	AC/L
3	AC/N

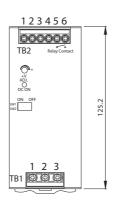
Terminal Pin No. Assignment (TB2)

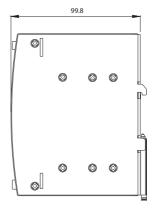
Pin NO.	Assignment
1	DC+
2	DC-
3	INH+
4	INH-
5,6	Relay Contact

Switch No. Assignment

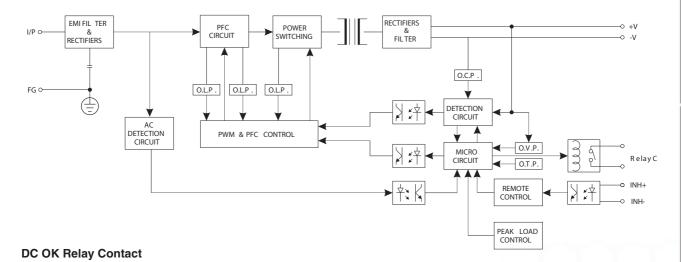
SW NO.	Assignment	
SW1	PEAK LOAD SETTING	
SW2 REMOTE ON/OFF SETTING		







Block Diagram



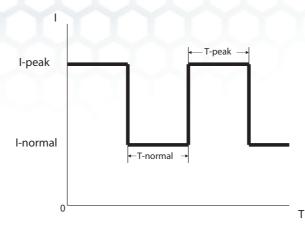
Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop below 45% rated output voltage.
Contact Ratings(max.)	30V/1A resistive load



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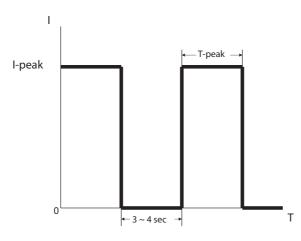


Peak Load SW1 ON (Mode1) Default setting

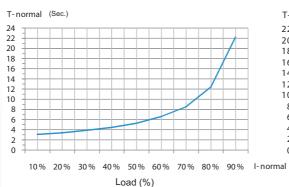


T-peak presents while the unit is working within 110%~150% Rating output power. See curve "B" for the variation in T-peak between output current and holdup time. If T-peak is more than the time setting in curve "B", the output current will drop to the constant current limit (I-normal) that is 105% rating 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.

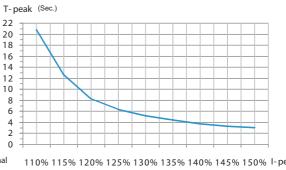
Peak Load SW2 OFF (Mode2)



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.



CURVE A



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

Altech Corp.











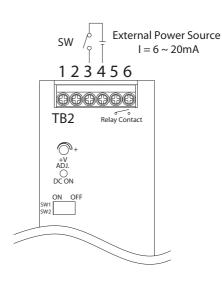


Remote ON/OFF

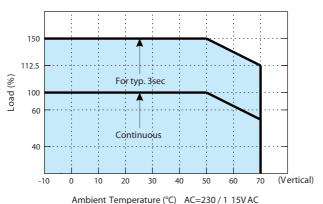
The PSU can be turned ON/OFF by using the "Remote Control" function.

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

