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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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E205412

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

OUTDUT	Cat. No.	PSC-24124	PSC-24148	
OUTPUT	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 mod 3 seconds or 20% duty cycle Max. The average output power s		
	RIPPLE & NOISE (max)	150mVp-p	300mVp-p a 12" twisted pair-wire terminated with a 0.1µF & 47µF parallel capacit	
	VOLTAGE ADJ. RANGE	-2% ~ +8%	-2% ~ +8%	
	VOLTAGE TOLERANCE	±1.0%	±1.0%	
		Tolerance: includes set up tolerance, line regulation and loa	l de la companya de l	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	
	SETUP, RISE TIME	700ms, 30ms / 230VAC / 115VAC at full load	d	
INDUT	HOLD UP TIME (Typ.)	20ms / 230VAC; 20ms / 115VAC at full load		
INPUT	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	0270	
	INRUSH CURRENT (Typ.)	-		
	LEAKAGE CURRENT	33A / 115VAC; 65A / 230VAC <1mA/ 240VAC		
ROTECTION		<titiav 240vag<="" td=""><td></td></titiav>		
FNOTEGTION	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 an	d re-power on to recover.	
	OVER VOLTAGE	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		
VIRONMENT				
VIIIONMENT	WORKING TEMP.	$-25 \sim +70^{\circ}$ C (Refer to output load derating c Installation clearances: 40mm on top, 20mm on the bottom	CUTVE) n, 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	ach long X,Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL508, TUV EN60950-1		
	WITHSTAND VOLTAGE		-F/G: 707VDC 0/P-DC 0K: 707VDC	
	ISOLATION RESISTANCE	I/P-0/P, I/P-FG, 0/P-FG: > 100M Ohms / 500VDC / 25°C / 70% RH		
	EMI CONDUCTION & RADIATION	EN55022:2006 Class B	1005 41 0001 40 0005	
	HARMONIC CURRENT	EN61000-3-2: 2006 Class A, ENG1000-3-3: 1995+A1: 2001+A2: 2005		
	EMS IMMUNITY	EN61204-3: 2000, EN55024: 1998+A1: 200 The power supply is considered a component which will in re-confirmed that is still meets EMC directives.		
OTHERS	DC OK RELAY CONTACT RATINGS (max)	60VDC / 0.3A, 30VDC / 1A, 30VAC / 0.5A res	sistive load	
	MTBF	57K HRS (MIL-HDBK-217F)		
	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 2		

PSC-241 Series

Altech Corp.®

Unit : mm / inch

Mechanical Drawings

Terminal Pin No. Assignment (TB1)

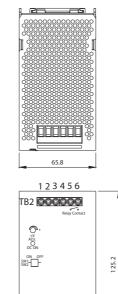
Pin NO.	Assignment	
1	FG 🕀	
2	AC/L	
3	AC/N	

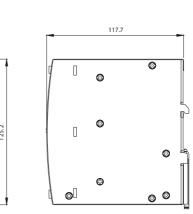
Terminal Pin No. Assignment (TB2)

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

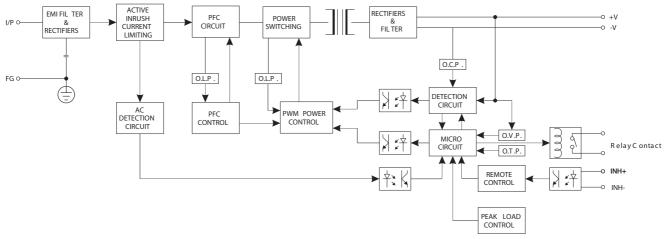
Switch No. Assignment

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





Block Diagram



123 TB1 🖾 🖾

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

Accessories

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Peak Load SW1 ON (Mode1) Default setting

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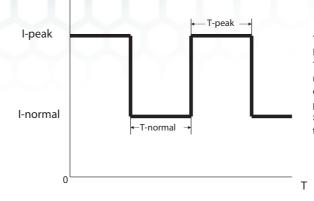
PSC-241 Series

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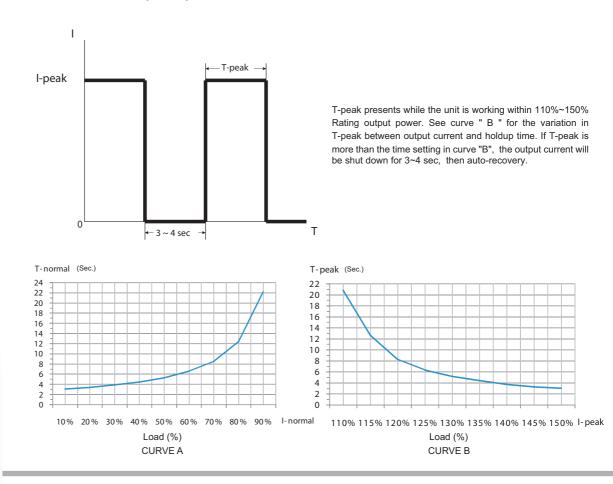
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TÜV



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)



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

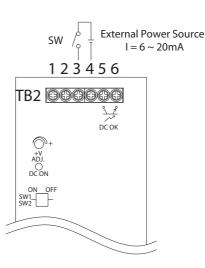
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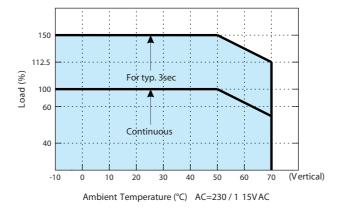
Remote ON/OFF

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

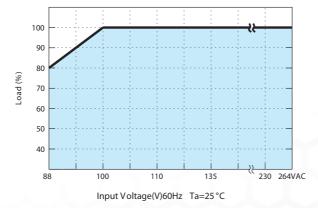
SW2	INH+(3 PIN)/ INH-(4 PIN)	Output Status	
OFF	SW ON (>2.5V)	ENABLE	
OFF	SW OFF (<0.8V)	DISABLE	
ON	SW ON (>2.5V)	DISABLE	
ON	SW OFF (<0.8V)	ENABLE	(De fault S etting)
	OFF OFF ON	OFF SW ON (>2.5V) OFF SW OFF (<0.8V)	OFF SW ON (>2.5V) ENABLE OFF SW OFF (<0.8V)



Derating Curve



Output derating VS input coltage



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Accessories H

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