PSP-240 Series





PSP-24024

Features:

- Universal AC input / full range
- Built in active PFC function
- Protections: Short Circuit / Overload / Overvoltage / • Over temperature
- Cooling by free air convection
- DIN rail mountable
- UL 508(industrial control equipment)approved

PSP-24048

- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at 100KHz
- 3 year warranty

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Cat. No.

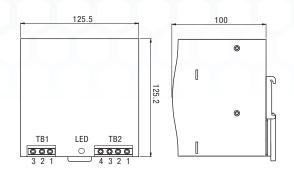
UUIPUI	Gal. NO.	F3F-24024	F3F-24040
	DC VOLTAGE	24V	48V
		10A	
	RATED CURRENT		5A
	CURRENT RANGE	0 ~ 10A	0 ~ 5A
	RATED POWER	240W	240W
	RIPPLE & NOISE (max)	80mVp-p Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair	150mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 53V
		-	
	VOLTAGE 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	800ms, 40ms / 230VAC 800ms, 40ms / 115VAC at f	heol llu
IPUT	HOLD UP TIME (Typ.)	24ms / 230VAC 24ms / 115VAC at full load	
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC	
		Derating may be needed under low input voltages, please check the deratin	a outrue for more detail
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	0.96 / 230VAC 0.99 / 115VAC at full load	
	EFFICIENCY (Typ.)	84%	85%
	AC CURRENT (max.)	2.8A / 115VAC; 1.4A / 230VAC	
	INRUSH CURRENT (Typ.)	COLD START 27A / 115VAC 45A / 230VAC	
ROTECTION	LEAKAGE CURRENT	\leq 3.5mA / 240VAC	
	OVERLOAD	105 ~ 150% rated output power	
		Protection type: Constant current limiting, recovers automatically after fault	condition is removed
	OVERVOLTAGE	30 ~ 36V	54 ~ 60V
		Protection type: Shut down overvoltage, re-power on to recover	
	OVERTEMPERATURE		arl
	UVENTEIVIPENATUNE	$100^{\circ}C \pm 5^{\circ}C$ (TSW: detect on heat sink of power transisto	,
NVIRONMENT		Protection type: Shut down overvoltage, recovers automatically after temper	rature goes down
	WORKING TEMP.	$-10 \sim +70^{\circ}$ C (Refer to output load derating curve)	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH	
CONTRACTOR CONTRACTOR	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)	
and design design	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60 min. each long X,Y, Z	axes
AFETY & EMC	MOUNTING	Compliance to IEC60068-2-6	
	SAFETY STANDARDS	UL508	
		UL60950-1	
		EN60950-1 compliant	
	WITHSTAND VOLTAGE	I/P-0/P: 3KVAC I/P-FG: 1.5KVAC 0/P-FG: 0.5KVAC	
	ISOLATION RESISTANCE	I/P-0/P, I/P-FG, 0/P-FG: 100M 0hms / 500VDC	
	EMI CONDUCTION & RADIATION	Compliance to EN55011; EN55022 (CISPR22) Class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN	N55024; EN61000-6-2; (EN50082-2);
		heavy industry level; criteria A	
		The power supply is considered a component which will installed into a fina	al equipment. The final equipment must be re-confirm
THERS		that it still meets EMC directives.	a equipment. The linal equipment must be re-comm
meno	-		
	MTBF	289.9K hrs min. MIL-HDBK-217K (25°C)	
	DIMENSION	125.5x125.2x100mm (WxHxD)	
	PACKING	1.2Kg; 12pcs / 15.5Kg / 1.29CUFT	
		All parameters NOT specially mentioned are measured at 230V AC input, rat	ted load and 25°C of ambient temperature.

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

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Mechanical Specification



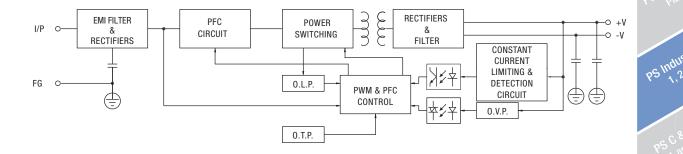
Terminal Pin Number Assignment (TB1)

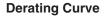
Pin No.	Assignment	
1	FG 🖶	
2	AC/N	
3	AC/L	

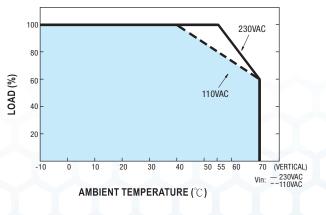
Terminal Pin Number Assignment (TB2)

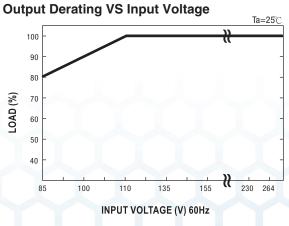
Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V

Block Diagram









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

Altech Corp.® • 35 Royal Road • Flemington, NJ 08822-6000 • Phone (908)806-9400 • FAX (908)806-9490

Appendix