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.

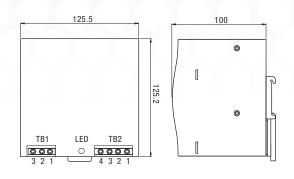
| UUIPUI | Gal. NO. | F3F-24024 | F3F-24040 |
|-----------------------|----------------------------|---|--|
| | DC VOLTAGE | 24V | 48V |
| | | 10A | |
| | RATED CURRENT | | 5A |
| | CURRENT RANGE | 0 ~ 10A | 0 ~ 5A |
| | RATED POWER | 240W | 240W |
| | | | |
| | RIPPLE & NOISE (max) | 80mVp-p Ripple & 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



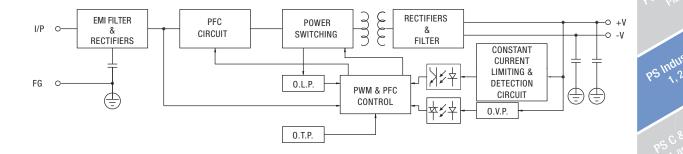
Terminal Pin Number Assignment (TB1)

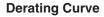
| Pin No. | Assignment | |
|---------|------------|--|
| 1 | FG 🖶 | |
| 2 | AC/N | |
| 3 | AC/L | |

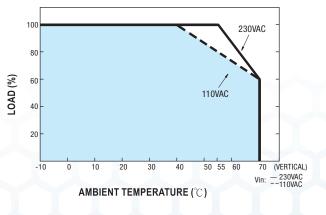
Terminal Pin Number Assignment (TB2)

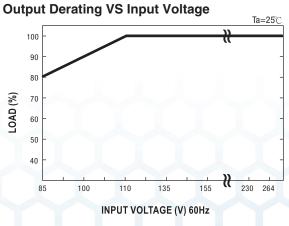
| Pin No. | Assignment |
|---------|--------------|
| 1,2 | DC OUTPUT +V |
| 3,4 | DC OUTPUT -V |

Block Diagram









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

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Appendix