



THREE PHASE BATTERY CHARGER

BP 4024T

Features :



- Three-Phase AC 340 ~ 550V wide range input
- Protections: Short circuit/ Overload/ Over voltage/ Over temperature
- Can be installed on DIN rail TS-35/7.5 or 15
- High efficiency 91% and low dissipation
- 100% full load burn-in test
- DC Adjustable
- Cooling by free air convection
- 3 years warranty

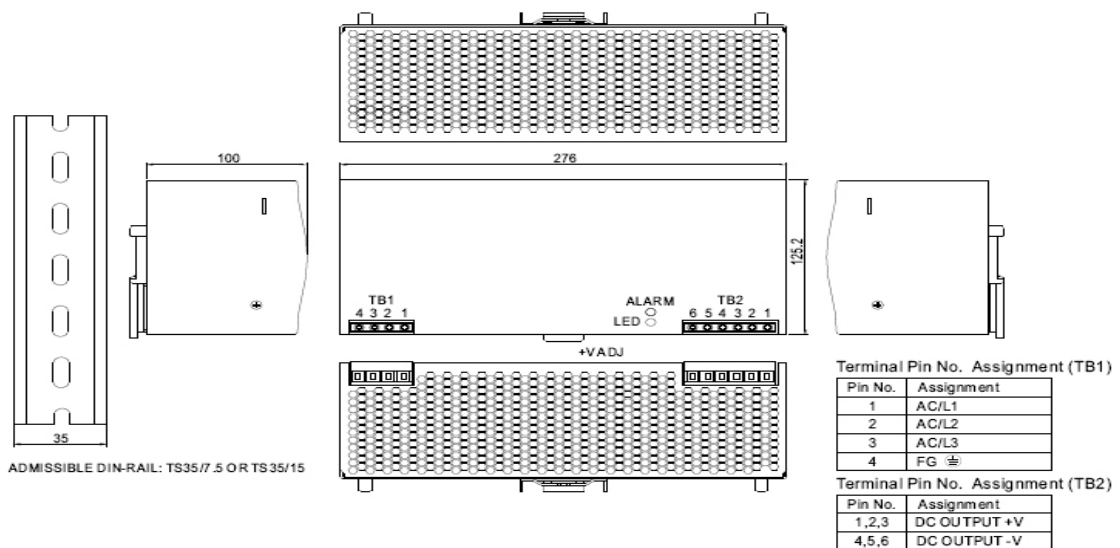
| MODEL | | Battery Charger BP 4024T |
|--------------|--|---|
| OUTPUT | DC VOLTAGE | 24 V |
| | RATED CURRENT | 40 A |
| | CURRENT RANGE | 0 ~ 40 A |
| | RATED POWER | 960 W |
| | RIPPLE 1 NOISE (max) | 80mVp-p |
| | VOLTAGE ADJ. RANGE | 24 ~ 28 V |
| | VOLTAGE TOLERANCE | (+/-) 1.0% |
| | LINE REGULATION | (+/-) 0.5% |
| | LOAD REGULATION | (+/-) 0.5% |
| | SETUP, RISE TIME | 200ms, 60ms/400VAC 200ms, 60ms/500VAC at full load |
| | HOLD UP TIME (Typ.) | 14ms/400VAC 30ms/500VAC at full load |
| INPUT | VOLTAGE RANGE | Three-Phase 340 ~ 550VAC (Dual phase operation possible in connecting L1, L3, FG) |
| | FREQUENCY RANGE | 47 ~ 63Hz |
| | EFFICIENCY (Typ.) | 91% |
| | AC CURRENT (Typ.) | 2A/400VAC 1.6A/500VAC |
| | INRUSH CURRENT (max.) | COLD START 50A |
| | LEAKAGE CURRENT | <3.5mA / 530VAC |
| | ▲ INFORMATION | Please adjust output voltage required with the potentiometer according to the battery charger type before the commissioning |
| PROTECTION | OVERLOAD | 105 ~ 125% rated output power Protection type : Constant current limiting, unit will shut down o/p voltage after 3sec., re-power on to recover |
| | OVER VOLTAGE | 30 ~ 36V Protection type : Shut down o/p voltage, re-power on to recover |
| | OVER TEMPERATURE | 110°C (+/-)5°C (TSW1) detect on heatsink of power transistor Protection type : Shut down o/p voltage, recovers automatically after temperature goes down |
| ENVIRONMENT | WORKING TEMP. | (-)20 ~ (+)60°C (Refer to output load derating curve) |
| | WORKING HUMIDITY | 20 ~ 90% RH non condensing |
| | STORAGE TEMP, HUMIDITY | (-)40 ~ (+)85°C, 10 ~ 95% RH |
| | TEMP. COEFFICIENT | (+/-)0.03%/°C (0 ~ 50°C) |
| | VIBRATION | Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X,Y,Z axes. Mounting: Compliance to IEC60068-2-6 |
| SAFETY & EMC | SAFETY STANDARDS | EN60950-1 approved |
| | WITHSTAND VOLTAGE | I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C/70%RH |
| | EMI CONDUCTION & RADIATION | Compliance to EN55011 (CISPR11), EN55022 (CISPR22), EN61204-3 Class B |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,-3 |
| | EMS IMMUNITY | Compliance to EN6100-4-2,3,4,5,6,8,11, ENV50204, EN61204-3, EN61000-6-2 (EN50082-2), heavy industry level, criteria A |
| OTHERS | MTBF | 122.5Khrs min. MIL-HDBK-217F (25°C) |
| | DIMENSION | 276*125.2*100mm (W*H*D) |
| | PACKING | 3.3Kg; 4pcs/14.2Kg/1.14CUFT |
| NOTES | All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature. | |
| | Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1uf & 47uf parallel capacitor. | |
| | The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives Dual phase operation (connecting L1, L3, FG) is allowed under certain derating to output load. Please refer to the derating curve for further details. | |

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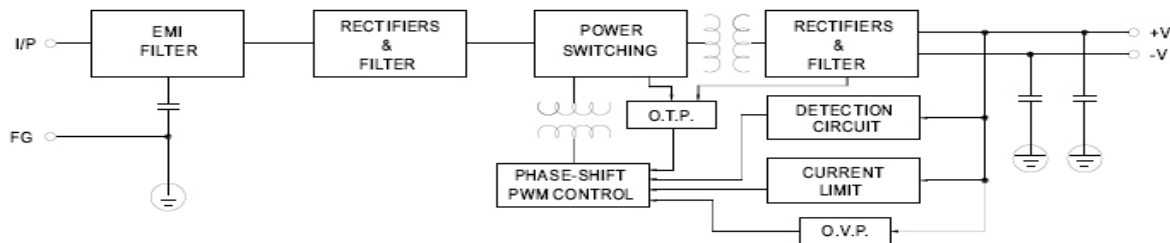
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Mechanical Specification

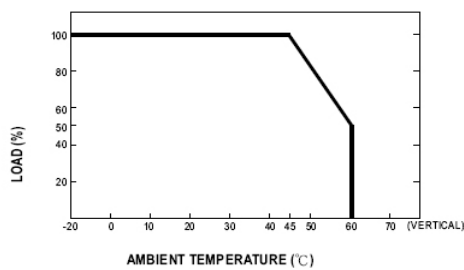
Unit: mm



Block Diagram



Derating Curve



Static Characteristics

