

BATTERY CHARGERS BPR + SERIES

BPR + 2024M



FEATURES :

- Protections: Short circuit/ Overload/ Over voltage/ Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- 100% full load burn-in test
- Built-in DC OK relay contact
- 3 years warranty

| MODEL | | Battery Charger BPR+ 2024M |
|---------------|--|---|
| OUTPUT | DC VOLTAGE | 24 V |
| | RATED CURRENT | 20 A |
| | CURRENT RANGE | 0 ~ 20 A |
| | RATED POWER | 480 W |
| | RIPPLE 1 NOISE (max) | 100mVp-p |
| | VOLTAGE ADJ. RANGE | 24 ~ 29 V |
| | LINE REGULATION | (+/-) 0.5% |
| | LOAD REGULATION | (+/-) 0.5% |
| | SETUP, RISE TIME | 2000ms, 70ms, 50ms/400VAC 2000ms, 70ms, 10ms/230VAC at full load |
| ▲ INFORMATION | Please adjust output voltage required with the potentiometer according to the battery charger type before the commissioning | |
| INPUT | VOLTAGE RANGE | 180 ~ 550VAC 254 ~ 780VDC |
| | FREQUENCY RANGE | 47 ~ 63Hz |
| | EFFICIENCY (Typ.) | 94% |
| | AC CURRENT (Typ.) | 2A/400VAC 4A/230VAC |
| | INRUSH CURRENT (Typ.) | COLD START 50A at 230VAC |
| | LEAKAGE CURRENT | <3.5mA / 240VAC |
| PROTECTION | OVERLOAD | 105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed |
| | OVER VOLTAGE | 31 ~ 37V Protection type : Shut down o/p voltage, re-power on to recover |
| | OVER TEMPERATURE | 100°C (+/-)5°C (TSW1) Protection type : Shut down o/p voltage, recovers automatically after temperatures goes down |
| FUNCTION | DC OK SIGNAL | 30V / 1A resistive |
| ENVIRONMENT | WORKING TEMP. | (-)25 ~ (+)70°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 | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X,Y,Z axes |
| SAFETY & EMC | SAFETY STANDARDS | UL508 approved |
| | WITHSTAND VOLTAGE | I/P-O/P: 3KVAC I/P-F/G: 1,5KVAC O/P-F/G: 0.5KVAC O/P-DC OK:0.5KVAC |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-F/G, O/P-F/G: 100M Ohms/ 500VDC/ 25°C/ 70% RH |
| | EMI CONDUCTION & RADIATION | Compliance to EN55011, EN55022 (CISPR22) Class B |
| | EMS IMMUNITY | Compliance to EN6100-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A |
| OTHERS | MTBF | 104Khrs min. MIL-HDBK-217F (25°C) |
| | DIMENSION | 85.5*125.2*128.5mm (W*H*D) |
| | PACKING | 1.6Kg; 8pcs/13.8Kg/0.9CUFT |
| NOTES | All parameters NOT specially mentioned are measured at 230VAC 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 wch will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives | |
| | Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quick may lead to increase of the set up time. | |

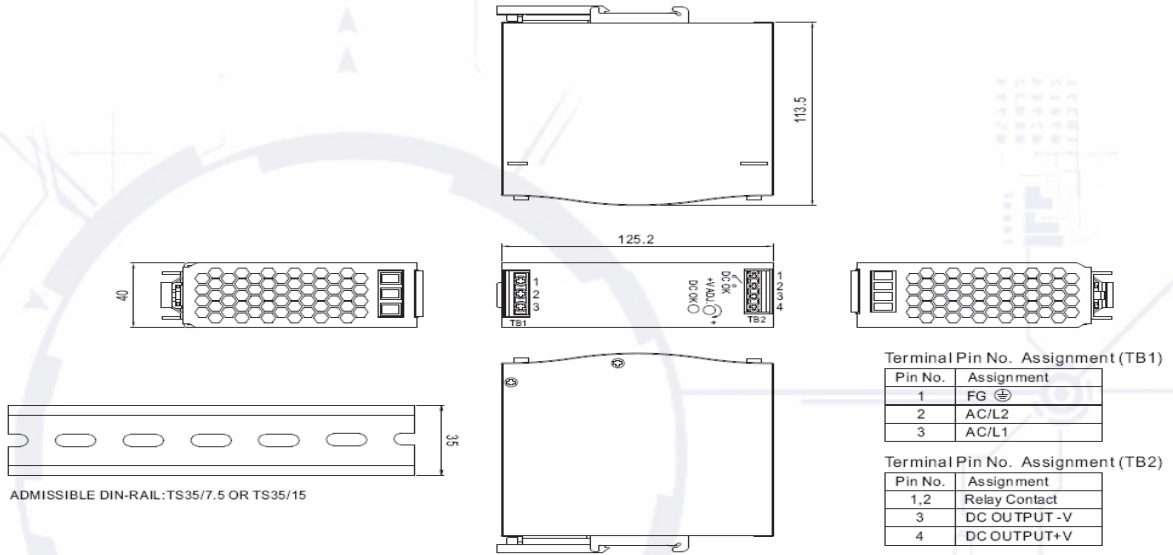
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MECHANICAL SPECIFICATION

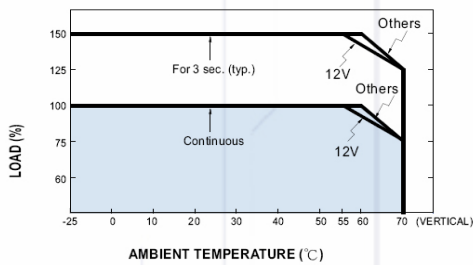
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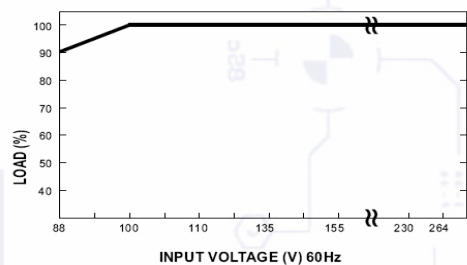
BLOCK DIAGRAM



DERATING CURVE



STATIC CHARACTERISTICS



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