

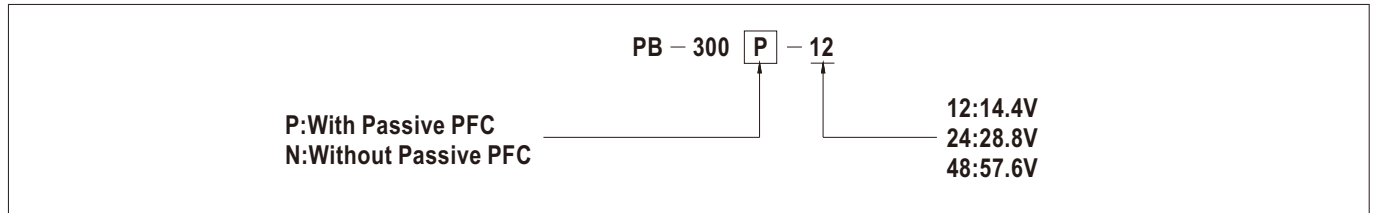


■ Features :

- Charger for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese) (Note.1)
- 3 stage charging
- AC 115/230VAC selected by switch
- Built-in passive PFC function compliance to BS EN/EN61000-3-2 Class A (option)
- Protection: Short circuit / Reverse polarity / Over voltage / Over temperature
- Cooling by free air convection
- 2 color LED loading indicator
- Low cost, High reliability
- 3 years warranty

■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

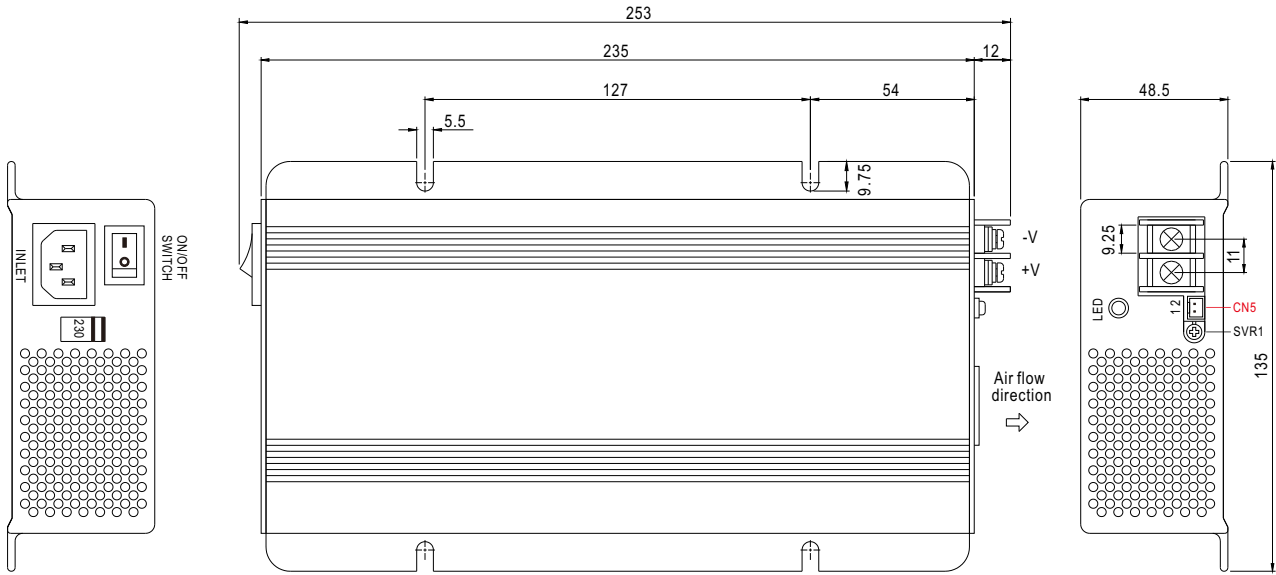


SPECIFICATION

| MODEL | PB-300□-12 | PB-300□-24 | PB-300□-48 | |
|----------------------------------|---|---|------------|-----------------------------|
| OUTPUT | BOOST CHARGE VOLTAGE V _{boost} | 14.4V | 28.8V | 57.6V |
| | FLOAT CHARGE VOLTAGE V _{float} | 13.6V | 27.2V | 54.4V |
| | VOLTAGE ADJUSTABLE RANGE | 13 ~ 14.7V | 26 ~ 28.8V | 52 ~ 58.6V |
| | RECOMMENDED BATTERY CAPACITY(AMP HOURS) Note 6 | 60 ~ 200Ah | 30 ~ 100Ah | 15 ~ 50Ah |
| | BATTERY TYPE | Open & Sealed Lead Acid | | |
| | MAX. OUTPUT CURRENT(Typ.) Note 8 | 20.85A | 10.5A | 5.3A |
| | CONTINUOUS OUTPUT CURRENT (Typ.) Note 7 | 12.5A | 6.25A | 3.2A |
| INPUT | VOLTAGE RANGE | 90 ~ 132VAC / 180 ~ 264VAC selected by switch | | 127 ~ 187VDC / 254 ~ 370VDC |
| | FREQUENCY RANGE | 47 ~ 63Hz | | |
| | POWER FACTOR (Typ.) | >0.65 (with P type) at 230VAC | | |
| | EFFICIENCY (Typ.) | 85% | 86% | 88% |
| | AC CURRENT (Typ.) | 6A/115VAC | 3A/230VAC | |
| | INRUSH CURRENT (Typ.) | COLD START 60A | | |
| | LEAKAGE CURRENT | <3.5mA / 240VAC | | |
| PROTECTION | SHORT CIRCUIT | O/P Built in fuse (FS100) to protect short circuit condition, shut down o/p voltage and can not re-power on | | |
| | REVERSE POLARITY | By internal fuse | | |
| | OVER VOLTAGE | 16 ~ 18V | 31 ~ 35V | 59 ~ 64V |
| | OVER TEMPERATURE | Protection type : Shut down o/p voltage, re-power on to recover | | |
| FUNCTION | REMOTE CONTROL (CN5) | Open: Normal work Short: Stop Charging | | |
| | WORKING TEMP. | -10 ~ +50°C (Refer to "Derating Curve") | | |
| ENVIRONMENT | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C , 10 ~ 95% RH non-condensing | | |
| | TEMP. COEFFICIENT | ±0.05%/°C (0 ~ 45°C) | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | |
| SAFETY & EMC (Note 5) | SAFETY STANDARDS | IEC60335-2-29 CB approved by TUV(except for 48V), UL62368-1, CSA C22.2 No. 62368-1, EAC TP TC 004 approved, Design refer to BS EN/EN62368-1 for P type only | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | |
| | EMC EMISSION | Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3 (only P type), EAC TP TC 020 | | |
| OTHERS | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, light industry level, EAC TP TC 020 | | |
| | MTBF | 2826.8K hrs min. Telcordia SR-332 (Bellcore) ; 287.9K hrs min. MIL-HDBK-217F (25°C) | | |
| | DIMENSION | 253*135*48.5mm(L*W*H) | | |
| NOTE | PACKING | 1.45Kg; 6pcs/9.7Kg/1.03CUFT | | |
| | <p>1. Modification for charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details.</p> <p>2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>4. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>5. 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.</p> <p>6. This is Mean Well's suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation.</p> <p>7. Test condition is at 25°C, charging current will change under different temperature.</p> <p>8. Maximum charging current will be in the range of 90~110% rated output current.</p> <p>9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p> | | | |

Mechanical Specification

Case No.801B Unit:mm

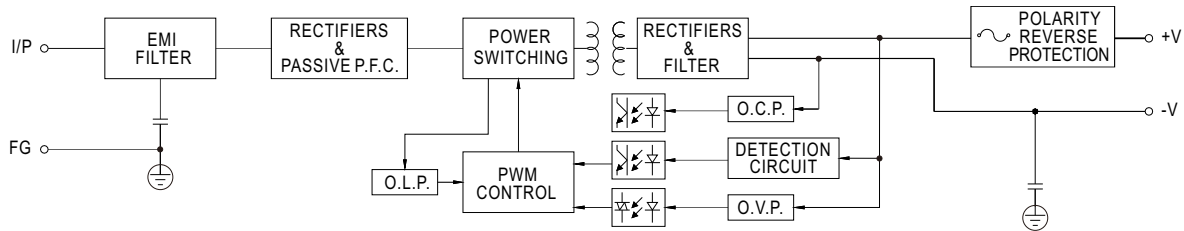


Remote Control(CN5) : JST B2B-XH or equivalent

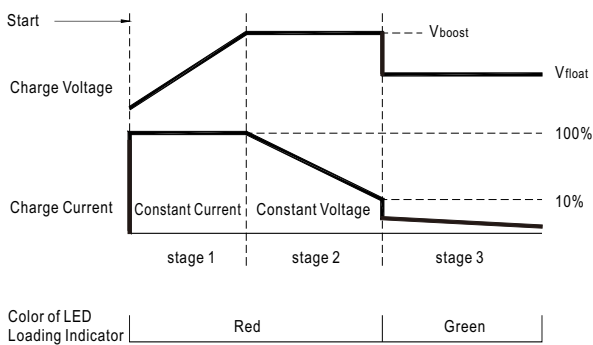
| Assignment | Mating Housing | Terminal |
|-----------------------------|-----------------------|---------------------------------|
| PIN1,2 Open: Normal work | JST XHP or equivalent | JST SXH-001T-P0.6 or equivalent |
| PIN1,2 Short: Stop Charging | | |

Block Diagram

fosc : 70KHz

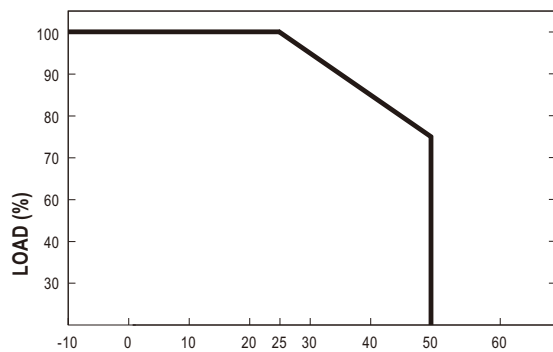


Charging Curve



| State | PB-300-12 | PB-300-24 | PB-300-48 |
|--------|-----------|-----------|-----------|
| Vboost | 14.4V | 28.8V | 57.6V |
| Vfloat | 13.6V | 27.2V | 54.4V |

Output Load VS Temperature



EXTERNAL CASE TEMPERATURE (°C)