

1000W Intelligent Single Output Battery Charger

PB-1000 series



Features :

- Charger for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese) (Note.1)
- 2/3/8 stage charging selectable on output panel (Note 5)
- Built-in battery rescue function
- Universal AC input / Full range
- · Controlled by microprocessor
- Built-in active PFC function PF>0.95
- Protection: Reverse Polarity / Short circuit / Over voltage / Over temperature
- 3 color LED loading indicator
- * Built-in remote ON-OFF control
- 2-Bank charger
- Temperature compensation function
- FAN on/off control (depends on charging current)
- 3 years warranty



SPECIFICATION

| MODEL | | PB-1000-12 | PB-1000-24 | PB-1000-48 | | |
|-------------|---|---|--|---|--|--|
| | BOOST CHARGE VOLTAGE Vboost | 14.4V | 28.8V | 57.6V | | |
| | FLOAT CHARGE VOLTAGE Vfloat | 13.8V | 27.6V | 55.2V | | |
| | OUTPUT CURRENT | 60A | 34.7A | 17.4A | | |
| | RECOMMENDED BATTERY | 000 0004 | 400 05041 | 00 1754 | | |
| OUTPUT | CAPACITY(AMP HOURS)(Note 4) | 200 ~ 600Ah | 120 ~ 350Ah | 60 ~ 175Ah | | |
| | BATTERY TYPE | Open & Sealed Lead Acid | | | | |
| | LEAKAGE CURRENT FROM | 14 m A | | | | |
| | BATTERY (Typ.) | <1mA | | | | |
| | VOLTAGE RANGE | 90 ~ 264VAC 127 ~ 370VDC | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | |
| | POWER FACTOR (Typ.) | 0.95/230VAC 0.98/115VAC at full load | t | | | |
| INPUT | EFFICIENCY (Typ.) | 85% | 88% | 89% | | |
| | AC CURRENT (Typ.) | 12A/115VAC 5.2A/230VAC | • | | | |
| | INRUSH CURRENT (Typ.) | 25A/115VAC 50A/230VAC | | | | |
| | LEAKAGE CURRENT | <3.5mA/240VAC | | | | |
| | OVER VOLTAGE | 16~18V | 32 ~ 35V | 64.5~69.5V | | |
| PROTECTION | OVER VOLIAGE | Protection type : Shut down o/p voltage, r | e-power on to recover | | | |
| | OVER TEMPERATURE | Shut down o/p voltage, recovers automatically after temperature goes down | | | | |
| | SHORT CIRCUIT | YES, protected by internal circuit | | | | |
| | REVERSE POLARITY | YES, protected by internal circuit | | | | |
| | REMOTE CONTROL | Open: Normal work Short: Stop Cha | Open: Normal work Short: Stop Charging | | | |
| | BATTER BANKS | 2 banks (A & B) | | | | |
| FUNCTION | FAST CHARGE | 2/3/8 stage selectable | | | | |
| I UNCTION | CHARGER OK | Relay contact rating(max.): 30V/1A resistive ; "Sho | rt" when the unit is working properly, "Open"when the | ne unit is failure or the protection function is activation | | |
| | OUTPUT OK | Relay contact rating(max.): 30V/1A resistive ; "Short" when the battery is full, "Open" when the battery is still charging | | | | |
| | TEMPERATURE COMPENSATION | By NTC, compensate both banks at the same time | | | | |
| | WORKING TEMP. | -20 ~ +60 $^\circ\mathrm{C}$ (Refer to "Derating Curve") | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY | -40 ~ +85 $^\circ\mathrm{C}$, 10 ~ 95% RH non-condensing | | | | |
| | TEMP. COEFFICIENT | ±0.05%/°C (0~50°C) | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. ea | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | |
| | SAFETY STANDARDS | UL60950-1, TUV EN60950-1, EAC TP TC 004 approved | | | | |
| SAFETY & | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-I | FG:0.5KVAC | | | |
| EMC | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 | 0VDC / 25°C / 70% RH | | | |
| (Note 3) | EMC EMISSION | Compliance to EN55032 (CISPR32), EN61000-3-2,-3, EAC TP TC 020 | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020 | | | | |
| OTHERS | MTBF | 127.4K hrs min. MIL-HDBK-217F (25° | C) | | | |
| | DIMENSION | 300*184*70mm(L*W*H) | | | | |
| | PACKING | 3.5Kg; 4pcs/15Kg/1.83CUFT | | | | |
| NOTE | All parameters NOT special The power supply is conside EMC directives. This is Mean Well's sugges Please choose the "3 stage | action for charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details. ameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. over supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets directives. Mean Well's suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation. to choose the "3 stage" selection when the charger is used to charge the batteries and power the loads in the same time. mbient 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). | | | | |



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© Suitable for lead-acid batteries (flooded, Gel and AGM).

© "stage 1"(Pulse) and "stage 2"(Soft Start) provide battery rescue function.

2,3, or 8 Stage Charging Select

(1)The charger features user selectable 2,3, or 8 stage charging. The charging profile is selected by moving the slide switch on the back panel.

| Switch | Charging mode |
|--------|------------------|
| Right | 2 stage charging |
| Middle | 3 stage charging |
| Left | 8 stage charging |

(2)Please choose the "3 stage" selection when the charger is used to charge the batteries and power the loads in the same time.



Function Manual

1.Remote Control

The charger can be turned ON/OFF by using the "Remote Control" function.

| Between RC+(pin10) and RC-(pin9) | Charger |
|----------------------------------|---------|
| SW Open | ON |
| SW Short | OFF |







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2.Two Battery Banks (2/8 stage only)

The charger may be hooked up two battery banks (A and/or B). Connect the battery bank(s) as below. If you are connecting 2 battery banks in the same time, keep in mind that they must share a common ground.

NOTE: The charger will charge bank A first then bank B if both channels are connected.







3.Charger OK Relay(RY15)

| Charger | Between pin5 and pin6(RY15) | |
|--|-----------------------------|--|
| Normal work | ON (Short) | |
| Failure or the protection function is activating | OFF (Open) | |



4.Output OK Relay(RY13 & RY14)

| Bank A | ank A Between pin1 and pin2(RY13) | |
|----------------|-----------------------------------|--------|
| Battery A Full | ON (Short) | Green |
| Charging | OFF (Open) | Orange |

2.Bank B OK (RY14)

| Bank B | Between pin3 and pin4(RY14) | Color of LED B |
|----------------|-----------------------------|----------------|
| Battery B Full | ON (Short) | Green |
| Charging | OFF (Open) | Orange |



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5. Temperature Compensation

Temperature sensor comes along with the charger can be connected to the unit to allow temperature compensation of the charging voltage. If the temperature sensor is not used, the charger still

works normally.



The temperature sensor can either be attached to the battery or placed in its surrounding environment.