

Battery Charger

User Manual

Model Name

PM-0848 / PM-1024

PM-1212 / PM-1424

PM-2512 / PM-2524

PM-5012

before connecting and using the battery charger.

● Information for using the installation instructions

Warning! Failure to observe this warning may result in damage to equipment.

Caution ! Failure to observe this warning may result in damage to equipment & improper functioning of the battery (

● General safety and installation information

Warning ! The following fundamental safety measures must be observed when using electrical equipment to avoid danger of : • Electric Shocks • Fire • Injury

● About the unit itself

- The battery charger must only be used for the purpose specified by the manufacturer.
- Do not operate the battery charger if the housing or cable was damaged!
- The battery charger must be positioned and secured in such a way that can't fall over or down! The connector cable from the battery charger must be plugged into earth outlet only. - Ensure good ventilation.
- The battery charger must be kept in safe place out of the reach of children!
- The battery charger must not be operated in a damp or wet environment!
- A qualified person who familiar with the risks involved & the relevant regulations must only carry out servicing & re

● Caution, by installation on boats !

- Wrong installation of electrical units on a boat can lead to corrosion of the boat. Therefore, please let a (boat) electrician carry out the installation of the charger.

● About the cables

- If cables have to be inserted through metal walls or other sharp edged Materials, use a cable duct or cable bushes
- Secure cables properly ! - Do not pull the cables !
- Do not lay cables loose or with sharp bends on electrically conductive materials (metal) !
- Lay cable in such a way that no one can trip over them !
- Do not lay AC INPUT main cable and DC OUTPUT cable together in the same cable duct !
- The specified minimum cable cross-section must be complied with !
- Lay cables in such a way that they are not exposed to the risk of damage !

● Intend use

The use of a high efficiency primary switching controller makes the installation friendly and very small, light and powerful. Together with the mechanical strength, the pole errors & short circuit protection ensure high operation safety. Because of these features, the unit is ideal for mobile uses in motor homes, on motor or sailing yachts or in ambulances and emergency rescue vehicles with a battery capacity of 100Ah : PM 0848 / PM1024 or 150Ah : PM 1212 / PM 1512 or 300Ah : PM 2512 / PM 2524 or 600Ah : PM 5012

● Features

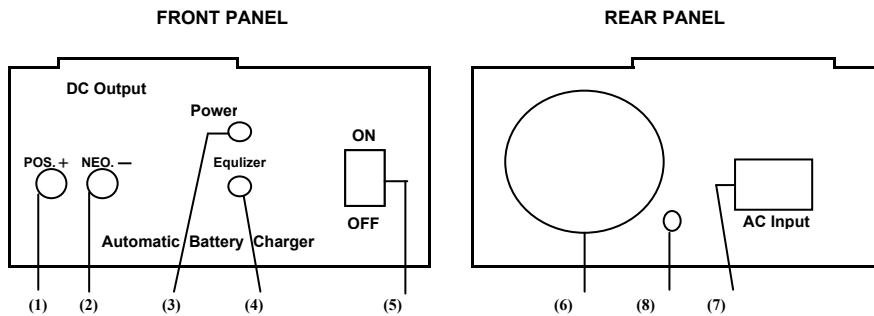
- Small, light and robust in design and manufacture. - Pole error and short circuit protection.
- Rectifier function. As mains unit, suitable for parallel operation . - Easy installation by brackets on the housing
- LED charge display. - 3-stage charger characteristic for rapid and complete battery charging.

● Option Function

- Optimum charge characteristics through temperature compensation to sense battery. - Two groups of DC output
- Input voltage select by manual (switch on base) - Over heat protection by decrease output current.

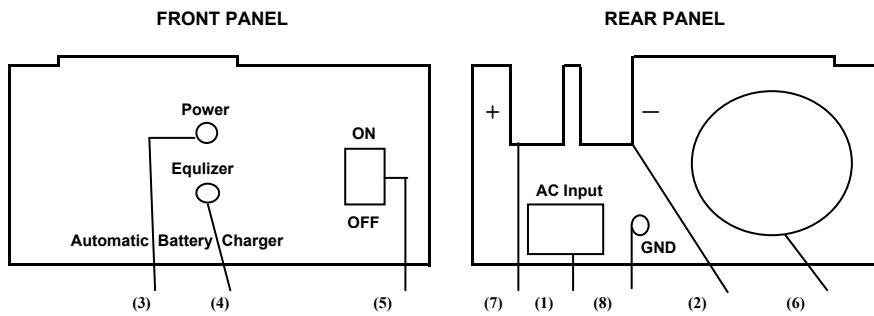
● Installation and Operation

- ⊙ The battery charger must be installed in a location which is protected from exposure to damp. Ensure that the location is well ventilated and that the surface on which it is mounted is level and sufficiently strong. The air intake on the front and the air outlet on the rear must always be unobstructed.
- ⊙ Before connecting or disconnecting the DC cable, set the mains switch to “off” and unplug from the mains always.



PM 0848 / PM 1024 / PM 1212 / PM 1424 / PM 2512 / PM 2524 Control panel

- | | | |
|--------------------------------|--------------------------------|--------------------|
| 1. “ + ” (positive) terminal | 2. “ - ” (negative) terminal | 3. Power indicator |
| 4. Charging indicator | 5. On / Off switch | 6. Fan |
| 7. Ac power input | 8. Earth Terminal | |



PM 5012 Control Panel

- ⊙ **Fuse** PM 1212 / PM 1024 : Glass fuse 3AT 250V
PM 0848 : Glass fuse 6AT 250V
- PM 2512 / PM 1424 : Glass fuse 4AT 250V
PM 5012 / PM 2524 : Glass fuse 8AT 250V

● **DC Cable Install**

- Fit the ends of the cables to be connected to the battery charger with lugs.
- Crimp the lugs on to the cable end with crimping pliers.
- Make sure that the lugs are securely fitted.
- Connect the cable to the unit via the two terminals on the front panel.

Despite the pole error protection, always make sure that the cables are properly poled.

● **Rectifier function**

The battery charger can be used provided the maximum current consumption of the consumers does not exceed current rating of the charger. It was recommended always to connect up the battery. The consumers should be connected direct to the battery. This applies in particular to consumers with high peak currents.

(e.g. high start-up current in the case of Compressors)

● **Maximum current consumption of consumers when used as a mains unit**

PM 0848 → 8 Amp PM 1024 → 10 Amp PM 1424 → 14 Amp
 PM 1212 → 12 Amp PM 2512 / PM 2524 → 25 Amp PM 5012 → 50 Amp

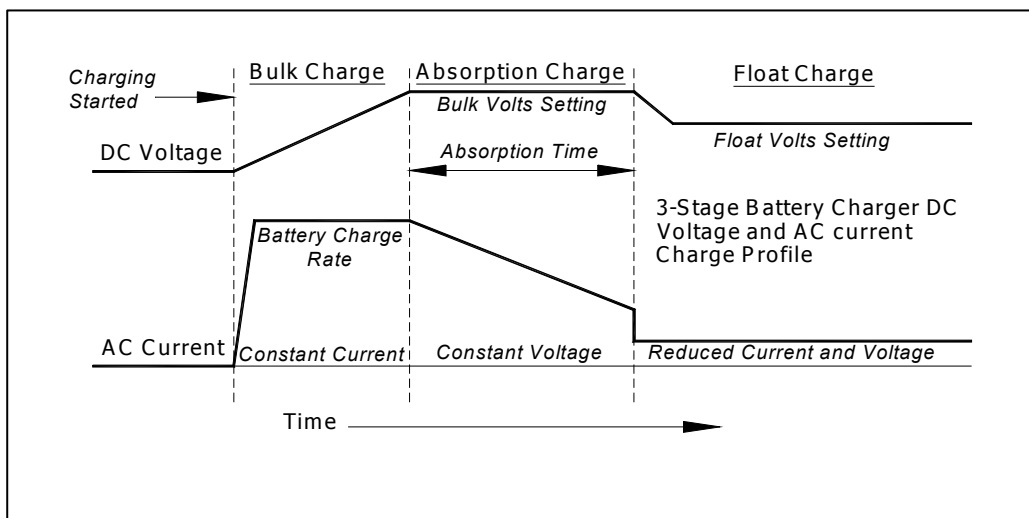
● **LED Indicator**

- Green : Light → Power On Dark → Power Off
- Yellow : Light → Bulk charging Dark → Float charging

● **Caution!**

- Battery with a cell closure must not be charged, as there is otherwise the danger of explosion through the occur of electrolytic gas.
- Nickel-cadmium batteries and non-chargeable batteries must not be charged with the charger. The casing of the types of batteries can burst explosively.

● **Charging Curve**



● **Specification**

MODEL	PM 0848	PM 1024	PM 1212	PM 1424	PM 2512	PM 2524	PM 5012
INPUT VOLTAGE	110/220V + - 15%	110/220V + - 15%	110/220V + - 15%	110/220V + - 15%	110/220V + - 15%	110/220V + - 15%	110/220V + - 15%
INPUT FREQUENCY	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz	50 / 60Hz
OUTPUT CURRENT	8A	10A	12A	14A	25A	25A	50A
OUTPUT EQUILIZER DC VOLTAGE	58.2Vdc	29.2Vdc	14.6Vdc	29.2Vdc	14.6Vdc	29.2Vdc	14.6Vdc
OUTPUT FLOATING DC VOLTAGE	54.8Vdc	27.4Vdc	13.7Vdc	27.4Vdc	13.7Vdc	27.4Vdc	13.7Vdc
Dim. (LxWxH) mm.	270 x 186 x 76	230 x 186 x 76	230 x 186 x 76	270 x 186 x 76	270 x 186 x 76	410 x 186 x 76	410 x 186 x 76
Net Weight	2.7kgs	2.4kgs	2.4kgs	2.7kgs	2.7kgs	4.9kgs	4.9kgs