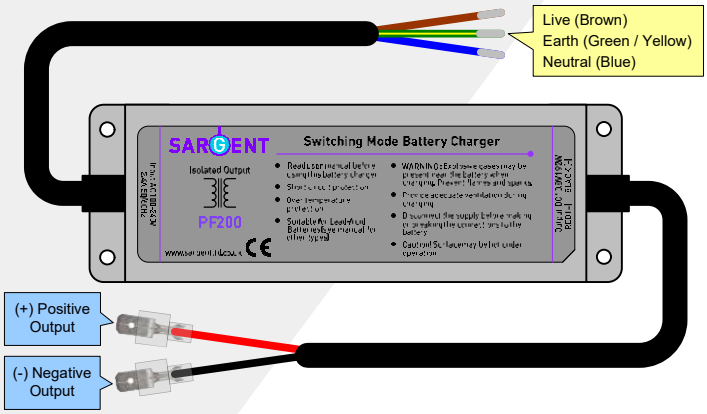
PF-200 Fixed Voltage Battery Charger

Electrical Connections



Safety

Please observe the warnings on the charger label, which are also shown below for reference.

Under heavy loads the charger case may become hot. ALWAYS ensure there is a clear flow of air around the charger.

Do not place combustible materials against / adjacent to the charger.

WARNINGS

- Explosive gases may be present near the battery when charging.
- Prevent flames and sparks.
- Provide adequate ventilation during charging
- Disconnect the supply before making or breaking the connections to the battery
- Caution! Surface may be hot under operation
- Short circuit protection
- Over temperature protection
- Suitable for Lead-Acid Batteries (see note opposite)

Specification

Input: 230V AC 50Hz 2.4A Output: 13.8V DC 192W

Dimensions: 200 x 63 x 35mm (excl cables) Weight: 0.84 Kg

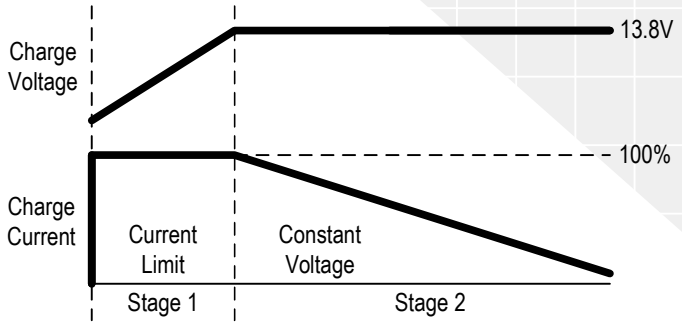
Input Connection: Stripped and prepared ends

Output Connection: 2x insulated blade terminals (6.3mm / ¼")

Approval: Electromagnetic Compatibility Directive 2014/30/EU EN55015:20013+A1:2015, EN61000-3-2:2014, EN61000-3-3:2013
Approval: Low Voltage Directive 2014/35/EU EN61347-1:2015, EN61347-2-13:2014+A1:2017

Issue 1 25/11/19

Charger Operation



During stage 1 the battery voltage is increased gradually while the current is limited to start the charging process and protect the battery. At stage 2 the voltage rises to 13.8V to deliver the bulk charge to the battery. When the battery is charged, the float charge is maintained at 13.8V. The charger can be left switched on continuously as required.

The battery charger / power converter can also provide power to the leisure equipment when the mains supply is connected. This module supplies DC to the leisure equipment up to a maximum of 13.9 Amps (192 Watts), therefore the available power is distributed between the leisure load and the battery.

The charger output voltage can be adjusted to compensate for installation voltage drop or to match a particular battery requirement / specification. On the underside of the charger remove the rubber bung to access the adjuster potentiometer. Under normal and typical installations it is not necessary to adjust the voltage, and not recommended without specialist knowledge.

System / Connections

The charger is configured to work with standard lead acid leisure batteries, and in most cases is also compatible with the latest range of Absorbed Glass Matt (AGM) batteries and many Lithium batteries with built in battery management systems which are compatible with an input voltage of 13.8V. Before fitting non-standard batteries please check that the charging profile described above is suitable for the type of battery by referring to the battery documentation or battery manufacturer. The recommended battery capacity is 85 to 110Ah. For larger batteries capacities or multiple batteries connected in parallel we recommend our larger PX300 intelligent charger.

The battery feed should be fitted with an inline fuse between the battery and the electrical harness in accordance with EN1648. The recommended fuse rating is 20A.

The charger input should be protected by a 5A fuse and / or a suitable miniature circuit breaker.

The output of the charger should be fused at 15A maximum as close to the charger output as possible.

In all cases the harness design / cable sizes should be chosen to match the charger output and system ratings.