



IF THE CHARGER DOES NOT OPERATE

Switch it off and remove the charger plug from the wall socket and check the AC power lead, charging leads and connectors for any damage.

Reconnect and turn on charger. If it is still not working, call your supplier for advice &/or return the charger complete with original packaging and leads for testing, remember that the green light may not immediately come on if the battery is extremely deeply discharged -- i.e. Under 8 volts for a nominal 12 volt battery under 16 volts for nominal 24 volt system.

Operation & Installation Manual

Switch-mode Charger

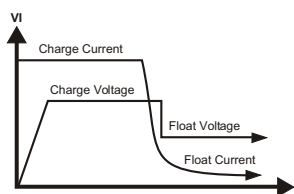
1208 2404



CAUTION!!!! There are no user serviceable components inside. Service personnel should ensure that the AC line source is disconnected prior to the case being opened for service. If the mains power cord is damaged, it must only be replaced with an approved type.

Common Specifications

Mains Input Voltage	
Mains Frequency	90-260 or 110/230 vac
Efficiency	47-63 Hz
Total Output Regulation	85% max.
Operating Temperature	+/-5%
Operating Humidity	0-40°C
Safety	10-90% RH
EMI	Meets CSA T-mark
Aust. Standard Approvals	FCC Class B, CE, C-Tick



Charging Characteristics
 Automatic boost charge
 Automatic preservation of fully charged condition
 Insensitive to fluctuations in mains voltage and mains frequency

GENERAL INFORMATION

This sophisticated switch-mode charger has been specially developed for use with all deep-cycle sealed lead-acid batteries including "Dryfit" gel batteries. It is light-weight, compact and efficient. It will operate on any AC input voltage between 90VAC to 260VAC - this means it will work ANYWHERE in the world without an additional transformer or switching for the 1208/2404, switched for 1214/2407. It automatically charges, without requiring monitoring, all sealed lead-acid, maintenance type and gel batteries with a nominal voltage of 12/24 volts. Charging begins immediately if the battery has been properly connected. The output of the charger is electronically protected against short circuit, reverse polarity connection and extremely deeply discharged batteries. A green Light Emitting Diode (LED) on the front panel is used as a charging and state of charge indicator.

MOUNTING

The 1208/2404 Switch-mode Charger should be installed in a moisture-free environment. Care should be taken to ensure that both the charger and the battery are securely mounted or positioned and adequately ventilated!

Operation

Plug in and switch on charger at the mains supply and then turn the charger's POWER switch on -- the charger is ready for connecting to the charging socket and/or batteries. **IMPORTANT!** This type of charger must be switched on before connecting to batteries. When the charging process begins, the green LED illuminates. After reaching approx. 80% charge, the green charging LED will cease to glow, **BUT LEAVE BATTERIES CONNECTED UNTIL READY FOR USE.** To check that battery is fully charged, turn off AC power or remove the charging connector for about 30 seconds then re-connect. The green LED should light momentarily then go out again. On this type of charger the battery may be left connected indefinitely as overcharging is impossible. If the LED does not go out, your battery should be tested at the place of purchase.

If a short circuit or reverse connection is accidentally applied to the output, the charger will immediately shutdown. Remove the short circuit or reverse polarity connection and re-connect to resume normal charging operation.

To ensure a full charge in the shortest time and ensure the longest possible battery life, make sure all leads and connectors are clean and undamaged.

1. Check all connections thoroughly and that the power switch of charger and the AC mains are turned ON.
2. Check that connectors on lead from charger to battery are correctly wired i.e. RED to positive (+) and BLACK to negative (-).
3. Note that the green light may not immediately come on if the battery is extremely deeply discharged, i.e. Under 8 volts for a 12 volt battery, under 16 volts for a nominal 24 volt system. Reverse connection of the charging leads will cause protective circuits to operate and prevent damage to the charger.
4. During the first charging phase, the charger may become quite warm or slightly hot to touch -- this is normal if charging deeply discharged batteries.
5. Do not attempt to charge a battery with other equipment attached which draws current. If you need this option, consult your vendor at the place of purchase.