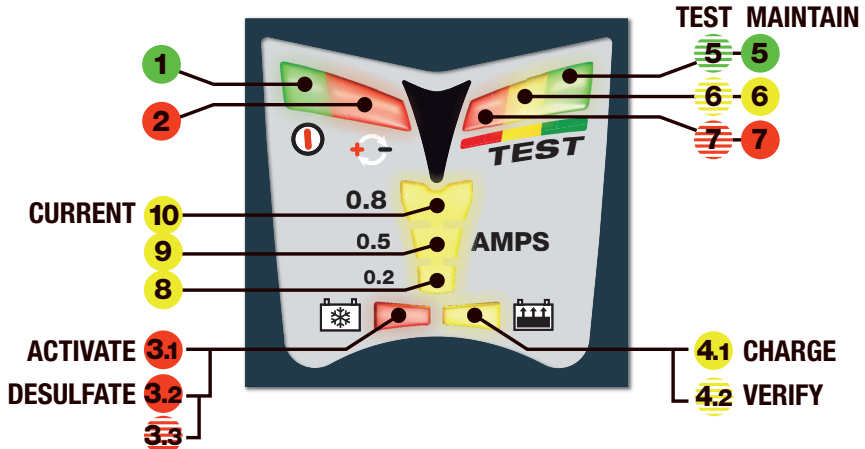


QUICK GUIDE – LED INFORMATION PANEL

Full details on any LED or step can be found in the manual under the same #



1. LED #1 - Power on. This LED confirms AC power supply to the charger.

All charge and test LEDs light briefly to confirm microprocessor health.

2. LED #2 indicates inverse polarity - wrong output connections. Swap around to activate output.

3. Circuit activation and recovery of deep-discharged, neglected batteries

3.1 ACTIVATION - If the battery voltage is above 2V, LED #3 lights briefly to confirm circuit activation.

For most batteries LED #3 goes out immediately and charge LED #4 comes on.

3.2 RECOVERY - For neglected or very flat batteries, LED #3 remains on and indicates steadily.

3.3 TURBO RECOVERY - For a badly neglected battery TURBO RECOVERY engages and LED #3 flashes.

If step 3 has not concluded after 2 hours, step 4 engages automatically.

4. Charge and charge verification

4.1 CHARGE: A steady LED #4 indicates the bulk charge stage.

4.2 VERIFICATION: LED #4 flashes while the circuit verifies battery charge level.

If the battery requires further charging the programme reverts to CHARGE. Multiple reversions may occur.

These reversions will cause LED #4 to alternate between steady and flashing, irregularly.

When LED #4 has flashed continuously for 30 minutes (or if steps 3 + 4 have not concluded within 48 hours) step 5 engages and a voltage retention test starts.

5. 6. 7. Voltage retention tests alternating half-hourly with battery maintenance

5 For a good battery LED #5 flashes throughout the 30 minute test. NO CHARGE CURRENT.

6/7 Flashing #6 / #7 may replace #5 if the battery voltage falls during the test, or vice versa.

Read § 6 and 7 in the main manual if either or both LEDs #6 and #7 indicate in this period.

Maintenance - float charge at a safe voltage limit to counter self-discharge.

During the 30 minute maintenance charge periods, whichever LED(s) #5 / 6 / 7 was/were flashing at the end of the TEST now indicate steadily. The battery can draw current as required to support small loads and counter self-discharge.

Maintenance and voltage retention test periods continue alternating half-hourly until the battery is disconnected. The test result is updated during each subsequent test.

8. 9. 10. CHARGE CURRENT LEDs

8 LED #8 (0,2A) could indicate if LED #3 (DESULFATE) is on or if LED #4 (CHARGE) is flashing.

9 LED #9 (0,5A) is normally on during the early part of the charge verification with LED #4 flashing.

10 LED #10 (0,8A) should indicate together with a steady LED #4 (CHARGE) during bulk charge.

If any LEDs #8/9/10 are on and any LEDs #5/6/7 are also on, read "note" in manual after §10.

On battery disconnection, all CHARGE and TEST LEDs light just briefly to confirm microprocessor reset.