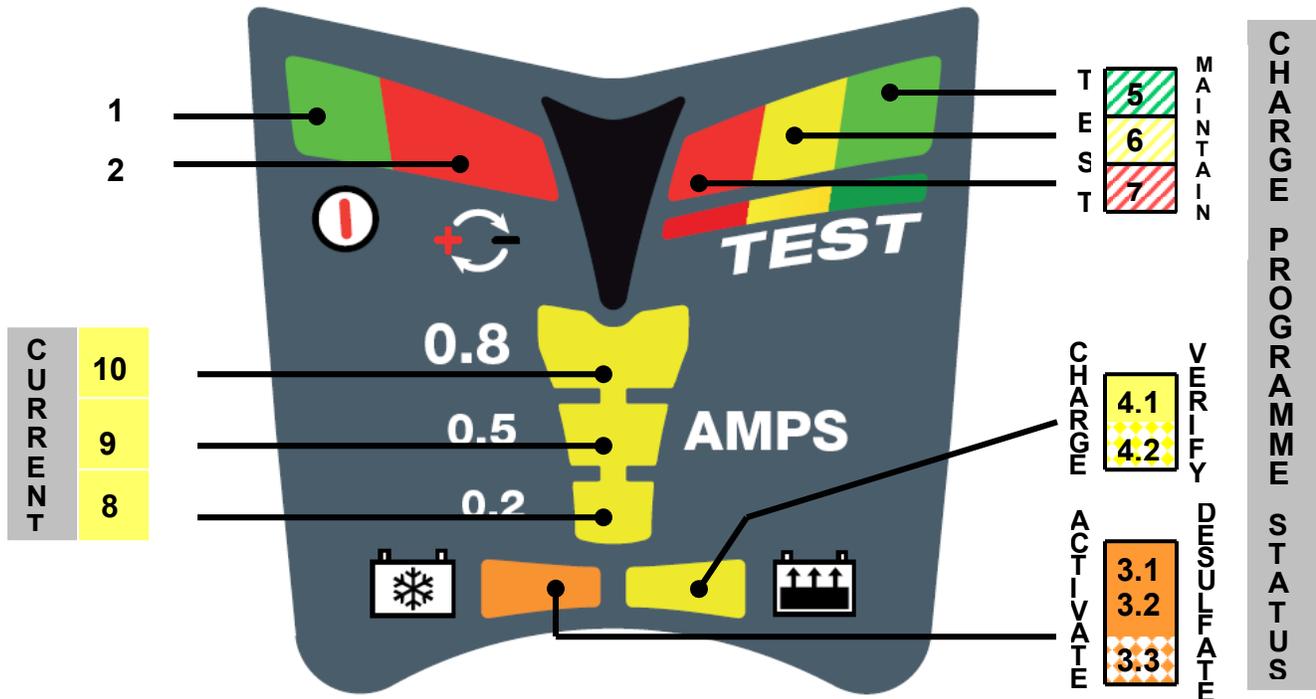


OptiMate 4 QUICK GUIDE – LED INFORMATION PANEL
FULL DETAILS ON ANY LED OR STEP CAN BE FOUND IN THE MANUAL UNDER THE SAME #



1. LED #1 - Power on. This LED confirms AC power supply to the charger.
ALL LEDs EXCEPT # 2, 8, 9, 10 LIGHT BRIEFLY TO CONFIRM MICROPROCESSOR HEALTH.
2. LED #2 indicates inverse polarity - wrong output connections. Swap around to activate output.
3. **CIRCUIT ACTIVATION & 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 & indicates steadily.
 - 3.3 TURBO RECOVERY - For a badly neglected battery TURBO RECOVERY engages & LED #3 flashes.
IF STEP 3 HAS NOT CONCLUDED AFTER 2 HOURS, STEP 4 ENGAGES AUTOMATICALLY.
4. **CHARGE & 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 & 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 & 7 IN THE MAIN MANUAL IF EITHER OR BOTH LEDs #6 & 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 & counter self-discharge.
- MAINTENANCE & 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**

LED #8 (0,2A) could indicate if LED #3 (DESULFATE) is on or if LED #4 (CHARGE) is flashing.
 LED #9 (0,5A) is normally on during the early part of the charge verification with LED #4 flashing.
 LED #10 (0,8A) should indicate together with a steady LED #4 (CHARGE) during bulk charge.
IF ANY LEDs #8/9/10 ARE ON & ANY LEDs #5/6/7 ARE ALSO ON, READ "NOTE" IN MANUAL AFTER §10.

On battery disconnection, all LEDs (except # 2, 8, 9, 10) light just briefly to confirm microprocessor reset.