E848 12V 1AMP BATTERY CHARGER

This Top-Up Charger was designed for use in motor homes, canal boats etc fitted with either solar or mains charging systems. It transfers charge from the leisure battery to the engine battery.



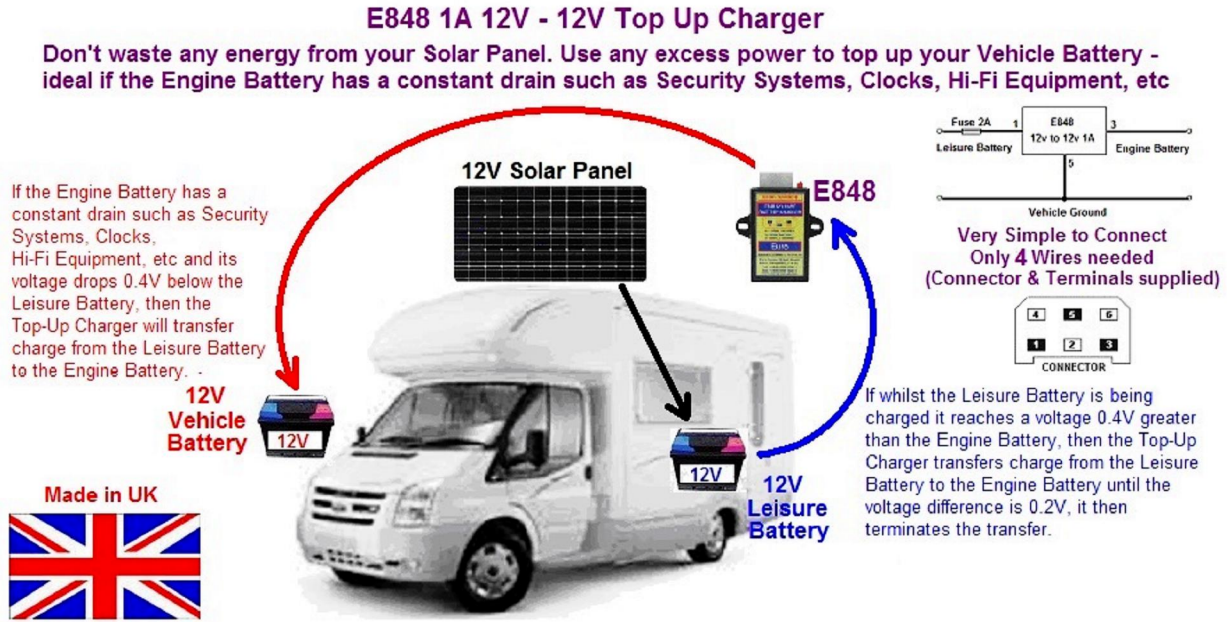
If whilst the leisure battery is being charged it reaches a voltage 0.4V greater than the engine battery, then the Top-Up Charger transfers charge from the leisure battery to the engine battery until the voltage difference is 0.2V, it then terminates the transfer.

If the engine battery has a constant drain such as Security Systems, Clocks, Hi-Fi Equipment, etc and its voltage drops 0.4V below the leisure battery, then the Top-Up Charger will transfer charge from the leisure battery to the engine battery.

The Top-Up Charger is able to cope with a discharge of up to 1A and will limit the transfer to protect itself.

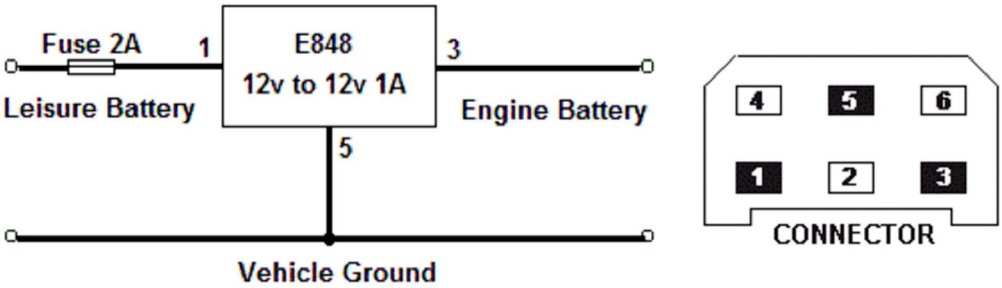
The LED Charge indicator shows four charge states.

1. **OFF:** **No charge transfer**
2. **ON "Bright":** **Normal charge transfer**
3. **Flashing:** **Engine battery fully charged**
4. **ON "Dim":** **Charge transfer in progress, engine battery low or leisure battery high**

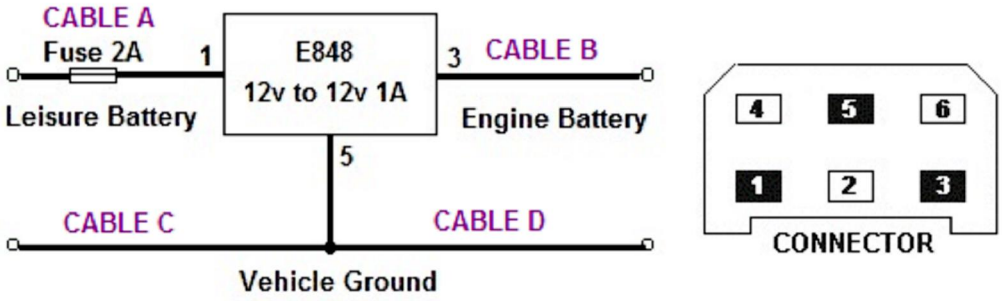


SPECIFICATION

Part Number	**E848**
Description	**12V 1Amp Battery Charger**
Leisure Battery	**12V Lead Acid**
Engine Battery	**12V Lead Acid**
Charge Transfer Rate (I out), Leisure to Engine battery	**1.1A < I out < 1.6A**
Total Quiescent Current, LED ON	**6mA Typical**
Leisure Battery Current Drain, LED OFF	**2.6mA Typical**
Engine Battery Current Drain, LED OFF	**0.3mA Typical**
Voltage Drop, Leisure to Engine Battery @ 1A	**0.58V Typical**
Case Style	**Flat Pack, Fully Encapsulated**
Dimensions	**97 x 81 x 21 mm**
Fixing	**2 Point Fixing – 5mm Holes (65mm fixing centres)**
Weight	**140g**



INSTALLATION OF YOUR E848



BEFORE STARTING YOU WILL NEED:-

- THIN WALL SINGLE CORE MULTI STRAND AUTO CABLE 1.5mm² DIAMETER
- 1 X INLINE FUSE-HOLDER
- TERMINALS TO CONNECT TO INLINE FUSEHOLDER
- 1 X 2A BLADE FUSE
- YOU MAY NEED RING TAGS TO FIT YOUR BATTERY TERMINALS

- CUT 4 LENGTHS OF CABLE:
    1. CABLE A:ONE PIECE LONG ENOUGH TO REACH FROM +VE TERMINAL OF LEISURE BATTERY TO WHERE YOU ARE GOING TO MOUNT E848 (CUT THIS PIECE IN HALF)
    2. CABLE B: ONE PIECE LONG ENOUGH TO REACH FROM +VE TERMINAL OF ENGINE BATTERY TO WHERE YOU ARE GOING TO MOUNT E848
    3. CABLE C: ONE PIECE LONG ENOUGH TO REACH FROM -VE TERMINAL OF LEISURE BATTERY TO WHERE YOU ARE GOING TO MOUNT E848
    4. CABLE D: ONE PIECE LONG ENOUGH TO REACH FROM -VE TERMINAL OF ENGINE BATTERY TO WHERE YOU ARE GOING TO MOUNT E848

- STRIP EACH END OF EACH CABLE (APPROX 5mm STRIP)
- FIT THE TERMINALS SUITABLE FOR THE INLINE FUEHOLDER (ONE TO EACH HALF OF CABLE A) AND THEN FIT THE FUSE-HOLDER AS SHOWN ON THE WIRING DIAGRAM. INSERT THE 2A BLADE FUSE
- FIT ONE OF THE TERMINALS SUPPLIED WITH THE E848 TO ONE HALF OF CABLE A AND FIT INTO THE E848 CONNECTOR (SUPPLIED) IN POSITION 1
- FIT ONE OF THE TERMINALS SUPPLIED WITH THE E848 TO CABLE B AND FIT INTO THE E848 CONNECTOR (SUPPLIED) IN POSITION 3
- FIT ONE OF THE TERMINALS SUPPLIED WITH THE E848 TO CABLE C + D TOGETHER (IE: 2 CABLES SHOULD BE CRIMPED TOGETHER INTO ONE TERMINAL) AND FIT THIS TERMINAL INTO THE E848 CONNECTOR (SUPPLIED) IN POSITION 5

- MOUNT THE E848 IN SUITABLE POSITION

- FIT THE CONNECTOR SUPPLIED TO THE E848 (WITH THE LEADS ALREADY INSERTED)

YOU ARE NOW READY TO CONNECT TO THE ENGINE AND LEISURE BATTERIES.

5. CONNECT CABLE A TO THE +VE TERMINAL OF LEISURE BATTERY*
6. CONNECT CABLE B TO THE +VE TERMINAL OF ENGINE BATTERY*
7. CONNECT CABLE C TO THE -VE TERMINAL OF LEISURE BATTERY*
8. CONNECT CABLE D TO THE -VE TERMINAL OF ENGINE BATTERY*

*IF YOUR BATTERY TERMINALS ARE FITTED WITH AN AUXILLIARY TERMINAL USE THESE TO CONNECT THE NEGATIVE AND POSITIVE CONNECTIONS. IF NOT REMOVE THE CLAMPING NUT, FIT A RING TAG TO SUIT BATTERY BOLT, REPLACE THE NUT AND TIGHTEN

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