E1677 12AMP BATTERY CHARGER 36V – 12V

36V – 12V BATTERY CHARGER 12AMP ***Charge a 12V Battery from a 36V Battery System***
HIGH SPECIFICATION
MANUFACTURED IN THE UK



- **PART NO: E1677**
- **TYPE: SWITCH MODE STEP DOWN BATTERY CHARGER**
- **CHARGING CURRENT (PVin = 36V): 12 AMP**
- **PEAK OUTPUT CURRENT (PVin = 36V, Vout >12V): > 16A**
- **INPUT VOLTAGE: 27V to 50V**
- **OUTPUT VOLTAGE: 14.05 VDC ± 0.03 V**
- **CONTROL INPUT CURRENT (CV in = 50V): 3mA Typical**
- **CONTROL INPUT VOLTAGE (CV in) :CHARGER ENABLED > 30.5V / CHARGER DISABLED < 26.5V**
- **OVERLOAD PROTECTION: YES**
- **POLARITY PROTECTED: EXTERNAL FUSES**
- **HIGH TEMP PROTECTED: YES**
- **SHORT CIRCUIT PROTECTION: YES**
- **EFFICIENCY: > 90%**
- **LOAD REGULATION: (PV in = 36V, I out = 0.1A to 12A) 0.3V**
- **LINE REGULATION (V in = 30V to 50V), I out = 12A) 0.05V**
- **DIMENSIONS: 155mm X 70mm X 53mm**
- **FIXING CENTRES: 138mm X 40mm (4 HOLE FIXING)**
- **HOLE SIZE: 4.5mm**
- **WEIGHT: 447g**

MODELS ALSO AVAILABLE: 24AMP / 36AMP / 48AMP / 60AMP / 72AMP / 84AMP

OEM AND TRADE ENQUIRIES WELCOME

WHY NOT VISIT OUR WEBSITES TO VIEW THE OTHER PRODUCTS WE MANUFACTURE:

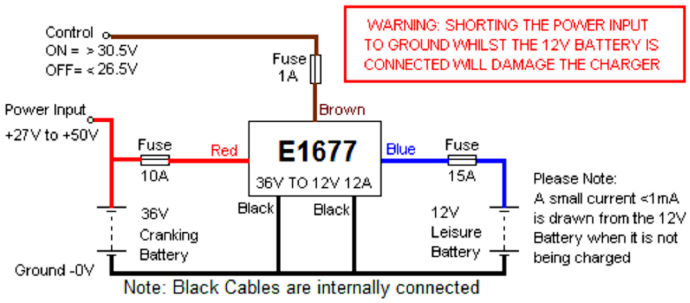
http://www.battery-management-voltage-converter.com
This site covers our:
- **Battery Management Systems**
- **Split Charge Controllers**
- **DC-DC Battery Chargers**
- **DC-DC Voltage Converters**
- **Trailer Voltage Converters**
- **Battery Status Indicators**
- **Voltage Sensitive Switches.**

http://www.eurogroup-gb.com
This site covers our Range of:
- **Water Level Monitors**
- **Water Level Probes**
- **Temperature Monitors**
- **Temperature Probes**
- **Air Conditioning Fan Control Units**
- **Vehicle Flashers and Interrupters**
- **Light Control Units**
- **Oil Level Monitors**
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- **Audible Warning Devices**
- **Reversing Alarms**
- **Timers**
- **Vehicle Safety and Security Units**
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- **Earth Straps**
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- **Transformer and Coil Winding**
- **Mechanical Assembly**
- **Special Purpose Electrical / Electronic Assembly**
- **Encapsulation and Formal Coating**
- **Vacuum Formed Parts**
- **Printed Circuit Board Assembly**

BEFORE INSTALLATION YOU NEED TO PURCHASE:
1 X 1A AUTOMOTIVE BLADE FUSE (COLOUR: BLACK)
1 X 10A AUTOMOTIVE BLADE FUSE (COLOUR: RED)
1 X 15A AUTOMOTIVE BLADE FUSE (COLOUR: BLUE)
3 X INLINE FUSE HOLDER (TO TAKE BLADE FUSES)

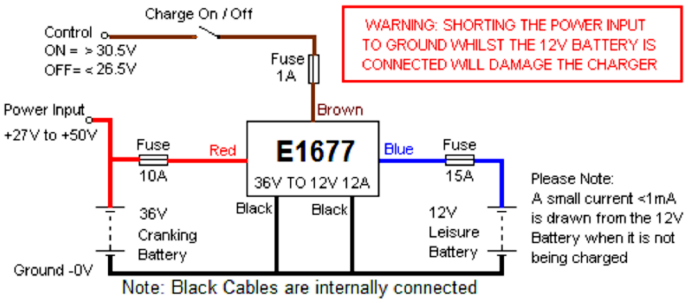
The Battery Charger can be wired in 3 ways:-

Wired as a fully automatic Charger (continuous running)
The Brown Control Wire is wired directly to the +ve Connection of the 36V Cranking (Donor) Battery to run the Charger all the time.
The Unit automatically controls the maximum charge into the 12V Leisure (Recipient) Battery preventing it from becoming over-charged / damaged.



Wired to only operate when the engine is running
The Brown Control Wire is wired to any +ve connection which becomes live when the Ignition is switched on.
The Unit automatically controls the maximum charge into the 12V Leisure (Recipient) Battery preventing it from becoming over-charged / damaged.

Wired as a manually operated Charger
The Brown Control Wire is wired via a Switch to the +ve Connection of the 36V Cranking (Donor) Battery to switch the Charger on and off manually.
In this case the Operator can control when the Battery Charger is switched on or off.
If left on, the Unit will automatically control the maximum charge into the 12V Leisure (Recipient) Battery preventing it from becoming over-charged / damaged.



INSTALLATION INSTRUCTIONS:

1. **CONNECT THE BLUE LEAD TO THE +VE CONNECTION OF THE 12V LEISURE / AUXILIARY BATTERY (FITTING 1 X INLINE FUSE HOLDER WITH 15A BLADE FUSE BETWEEN THE 12V BATTERY AND THE BATTERY CHARGER AS SHOWN ON WIRING DIAGRAM SUPPLIED WITH UNIT)**

2. **CONNECT ONE BLACK LEAD TO THE –VE CONNECTION OF THE 12V BATTERY**

3. **CONNECT ONE BLACK LEAD TO GROUND, IE: THE VEHICLE CHASSIS OR TO THE –VE CONNECTION OF THE 36V BATTERY**

4. **CONNECT THE RED LEAD TO THE +VE CONNECTION OF THE 36V CRANKING BATTERY (FITTING 1 X INLINE FUSE HOLDER WITH 10A BLADE FUSE BETWEEN THE 36V BATTERY AND THE BATTERY CHARGER AS SHOWN ON WIRING DIAGRAM SUPPLIED WITH UNIT)**

5. **THE BROWN CONTROL LEAD GIVES YOU THE OPTION TO SWITCH THE BATTERY CHARGER ON AND OFF USING A STANDARD LOW CURRENT SWITCH.**

6. **ALTERNATIVELY YOU CAN CONNECT THE BROWN LEAD DIRECTLY TO THE POSITIVE INPUT, IE: THE +VE CONNECTION ON THE 36V BATTERY (FITTING 1 X INLINE FUSE HOLDER WITH 1A BLADE FUSE BETWEEN THE 36V BATTERY AND THE BATTERY CHARGER AS SHOWN ON WIRING DIAGRAM SUPPLIED WITH UNIT) WHICH WILL ENABLE YOU TO RUN THE BATTERY CHARGER ALL THE TIME.**

7. **ALTERNATIVELY YOU CAN CONNECT THE BROWN LEAD DIRECTLY TO ANY +VE CONNECTION WHICH BECOMES LIVE WHEN THE IGNITION IS SWITCHED ON (FITTING 1 X INLINE FUSE HOLDER WITH 1A BLADE FUSE BETWEEN THE +VE 36V CONNECTION AND THE BATTERY CHARGER AS SHOWN ON WIRING DIAGRAM SUPPLIED WITH UNIT) WHICH WILL ENABLE YOU TO RUN THE BATTERY CHARGER ONLY WHEN THE ENGINE IS RUNNING**

IF IN DOUBT, PLEASE CONSULT AN AUTOMOTIVE ELECTRICIAN OR TELEPHONE US ON 01939 235073

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