

E1079 10AMP BATTERY CHARGER 48V – 12V

48V – 12V BATTERY CHARGER 10AMP *Charge a 12V Battery from a 48V Battery System*

HIGH SPECIFICATION

MANUFACTURED IN THE UK



- PART NO: E1079
- TYPE: SWITCH MODE STEP DOWN BATTERY CHARGER
- CHARGING CURRENT: 10 AMP
- PEAK OUTPUT CURRENT ($V_{in} = 48V$): > 18A
- INPUT VOLTAGE: 24V to 60V
- OUTPUT VOLTAGE ($V_{in} = 48V, I_{out} = 0.2A$): 14.05 VDC \pm 0.05 V
- CONTROL INPUT VOLTAGE RANGE: 0V to 60V
- CONTROL INPUT CURRENT ($V_{control} = 60V$): 6mA
- CONTROL INPUT VOLTAGE (CVIN) :CHARGER ENABLED > 46V / CHARGER DISABLED < 40V
- OVERLOAD PROTECTION: YES
- POLARITY PROTECTED: EXTERNAL FUSE
- HIGH TEMP PROTECTED: YES
- SHORT CIRCUIT PROTECTION: YES
- EFFICIENCY: 90%
- LOAD REGULATION: ($V_{in} = 48V, I_{out} = 0.2A$ to 15A): < 0.3V
- LINE REGULATION ($V_{in} = 40V$ to 60V, $I_{out} = 10A$): < 50mV
- DIMENSIONS: 215 x 71 x 55mm
- FIXING CENTRES: 199mm X 40mm (4 HOLE FIXING)
- HOLE SIZE: 4.5mm
- WEIGHT: 475g
- CONSTRUCTION: ANODISED COOLING PROFILE

MODELS ALSO AVAILABLE: 20AMP / 30AMP / 40AMP / 50AMP / 60AMP / 70AMP / 80AMP

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
- Oil Level Probes
- Hydraulic Control Units
- Audible Warning Devices
- Reversing Alarms
- Timers
- Vehicle Safety and Security Units
- Digital Speed Switches
- Solenoid Controllers
- Relays, Connectors, Lamps, Switches
- Earth Straps
- Looms and Wiring Harnesses
- Transformer and Coil Winding
- Mechanical Assembly
- Special Purpose Electrical / Electronic Assembly
- Encapsulation and Formal Coating
- Vacuum Formed Parts
- Printed Circuit Board Assembly

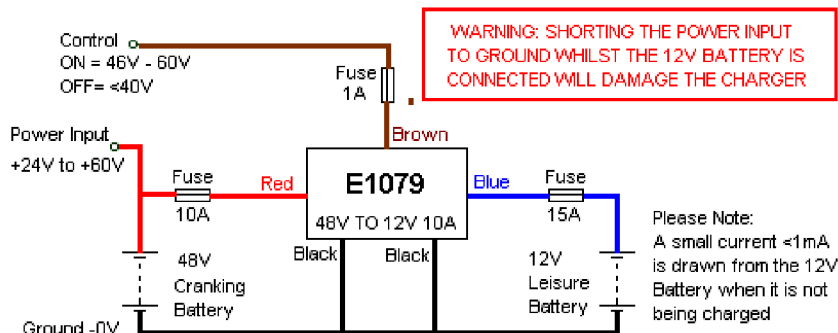
BEFORE INSTALLATION YOU NEED TO PURCHASE:

- 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 2 ways:-

Wired as a fully automatic Charger

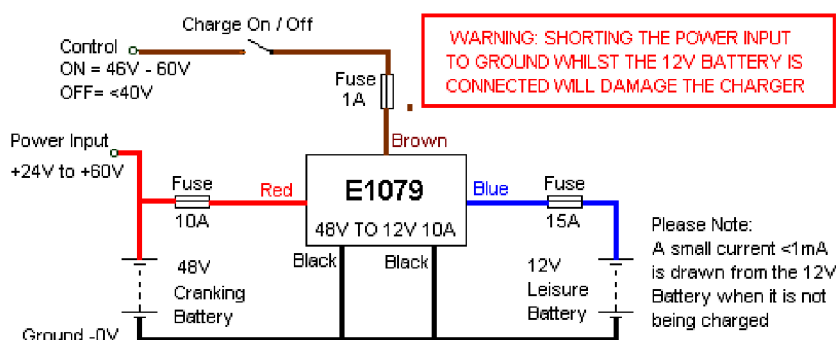
The Brown Control Wire is wired directly to the +ve Connection of the 48V Cranking (Donor) Battery to switch the Charger on and off automatically. In this case the Control Wire senses the 48V Cranking (Donor) Battery Voltage and switches the Charger on only when the 48V Cranking (Donor) Battery is being charged. The Unit automatically controls the maximum charge into the 12V Leisure (Recipient) Battery preventing it from becoming over-charged / damaged and prevents the 48V Cranking Battery (Donor Battery) from becoming flat / exhausted.



Wired as a manually operated Charger

The Brown Control Wire is wired via a Switch to the +ve Connection of the 48V 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 and prevent the 48V Cranking Battery (Donor Battery) from becoming flat / exhausted.



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 48V BATTERY**
- 4. CONNECT THE RED LEAD TO THE +VE CONNECTION OF THE 48V CRANKING BATTERY (FITTING 1 X INLINE FUSE HOLDER WITH 10A BLADE FUSE BETWEEN THE 48V 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 48V BATTERY (FITTING 1 X INLINE FUSE HOLDER WITH 1A BLADE FUSE BETWEEN THE 48V 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.**

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

EURO MANUFACTURING AND MARKETING LIMITED

Euro Works, 11-13 High Street, Wem, Shropshire SY4 5AA, England.

Tel: +44 (0) 1939 235073

Fax: +44 (0) 1939 235074

Email: sales@eurogroup-gb.com OR sales@battery-management-voltage-converter.com

Web Site: www.eurogroup-gb.com OR www.battery-management-voltage-converter.com