

DC2DC+ ePOWER charger

MULTI-STAGE - MULTI-SOURCE - MPPT BATTERY CHARGER



Designed to meet the rugged demands of Australian conditions and delivering multiple source charging for DC systems.

The Enerdrive ePOWER DC2DC+ Battery Charger is a fully automatic multistage, multi-input battery charger with the ability to charge from either an alternator linked to a battery; or via solar power with the in-built Maximum Power Point Tracking (MPPT) Solar Controller.

- ▶ Two totally independent DC Inputs for both engine and solar regulation charging one house battery bank output
- ▶ DC M6 screw terminals that will allow for large battery cable connection between all sources
- ▶ A dedicated Maximum Power Point (MPPT) solar regulator
- ▶ The same battery algorithms as included in our AC mains ePOWER Battery Charger. GEL, AGM, Flooded, Lithium and the ability to create a full custom profile
- ▶ Vehicle input allows for either 12 or 24V and a maximum solar input of 45V/800W
- ▶ 40A output up to 40+°C with thermo controlled fan cooling
- ▶ Fully programmable LCD display to show which source is charging the battery along with charger status, voltage and amperage.
- ▶ Temperature sensor included in charger for more accurate battery charging

DC2DC+ ePOWER charger

Specifications:

Output Rating	
Output Voltage	12V Nominal
Output Current (Maximum)	40A ~ 50A
Output Power	775W

Charger DC Output (CH1):	
Selectable Battery Type	Gel, AGM, Flooded, Lithium, Program
Charger Voltage Range	13.8V – 15.5V
Float Voltage Range	13.0V – 13.8V
Charger Current (User Selectable)	5/10/15/20/25/30/35/40/45/50A (default 40A)
Equalize Voltage (Flooded Battery)	15.5V
Equalize Charging Current	10% of Bulk Current Setting
Charging Control	2 stage / 3 stage selectable (Default 3 stage)
DC Output Bank	Single
Current draw from CH1 when in use	= < 50 mA
Battery Temperature Setting	Low/ Normal/ High (Battery Temperature Sensor Standard)
Efficiency	95%

INPUT Rating (CH2 - MPPT Solar)	
Input Voltage	14.5 - 45VDC
Maximum Solar Input	≤ 23V input, 500W (600W allowable) ≥ 37.5V-45V input, 750W (800W allowable)

INPUT Rating (CH3 - Start/Alternator)	
Input Voltage	10.5 - 16VDC / 21 - 32VDC

Dimensions	
Height x Width x Depth	242mm x 172mm x 74mm
Unit Weight	1.85 Kg
Shipping Weight	2.17 kg

Note: Specifications are subject to change without notice.

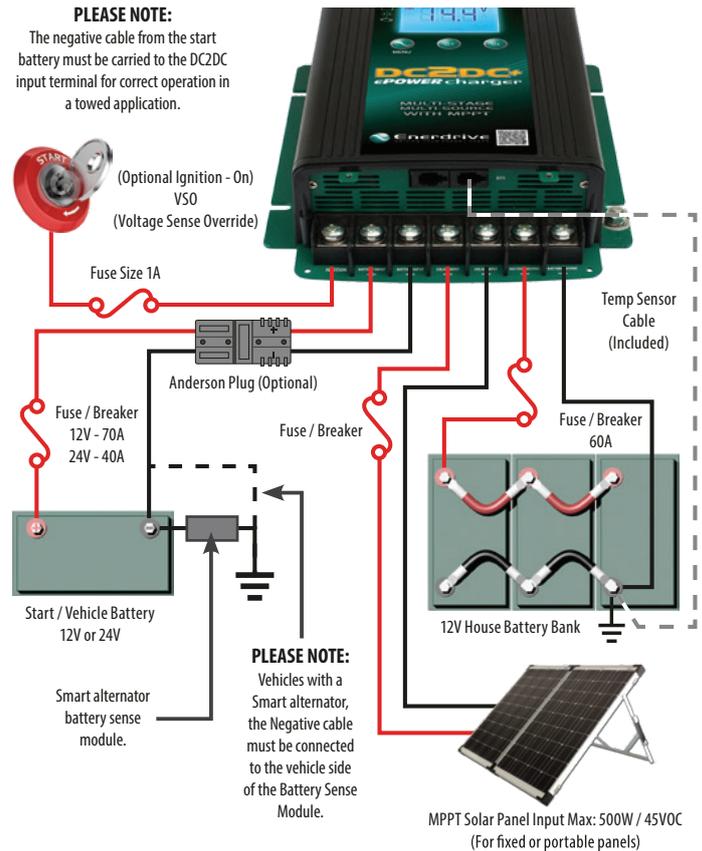
* The wiring diagrams are for a reference only. No cables, fuse/breakers, batteries or solar panels are supplied with this unit. Local rules and regulations should be followed when installing this unit.



Battery Wiring (Towing Applications)

For Towed Applications, i.e. Caravans, Camper Trailers.

PLEASE NOTE:
The negative cable from the start battery must be carried to the DC2DC input terminal for correct operation in a towed application.



Battery Wiring (Vehicle & Marine Applications)

For In Vehicle & Marine Installations, i.e. Motorhomes, 4WD's & Trucks.

