

# 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



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# 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 - 45VOC
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.



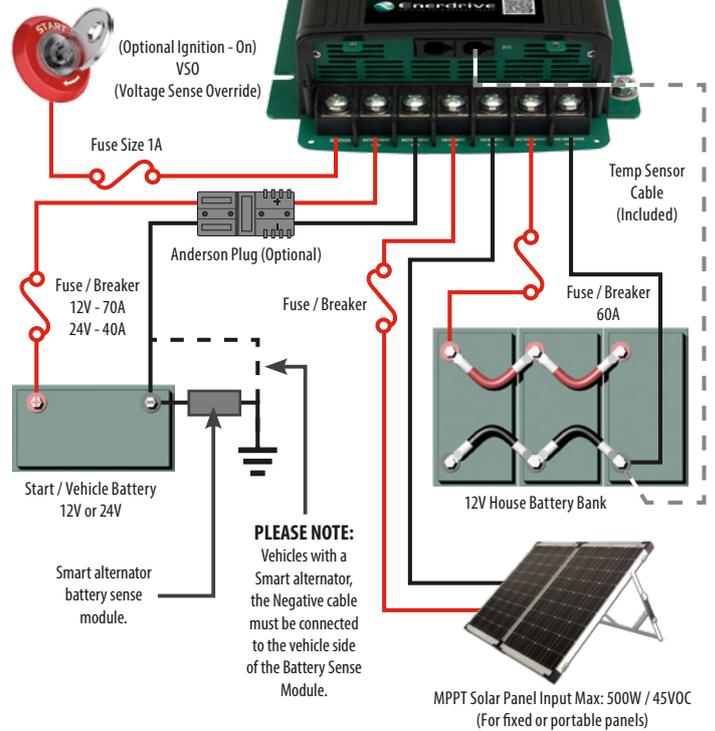
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## Battery Wiring (Towing Applications)

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.

