

Battery Charger

NEMO series

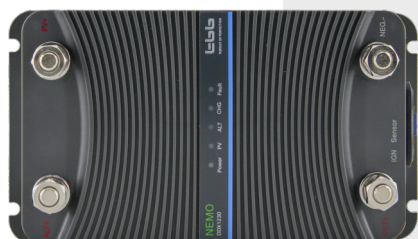
DX1230, DDX1230, DX1215, DX2415, DDX2415



The NEMO DX/DDX is a 12V/24V battery to battery charger (also known as DC-DC charger) with dual input technology enabling simultaneous charging of a Auxiliary battery from a vehicle's alternator and a suitable solar panel.

NEMO is compatible with standard and smart variable voltage ECU controlled alternators (Euro 6). For use in dual battery systems it can be used in 12V or 24V systems (model dependent) and is suitable for both lead acid and lithium batteries. Models are available up to 30A/12V and 15A/24V. Multiple units can be connected in parallel to increase output current.

The Nemo is designed to maintain and fully recharge most battery types using a multi-stage charging profile which provides optimal charging of your battery ensuring maximum lifespan and performance. Nemo is suitable for supporting loads up to the maximum rating while on the move.

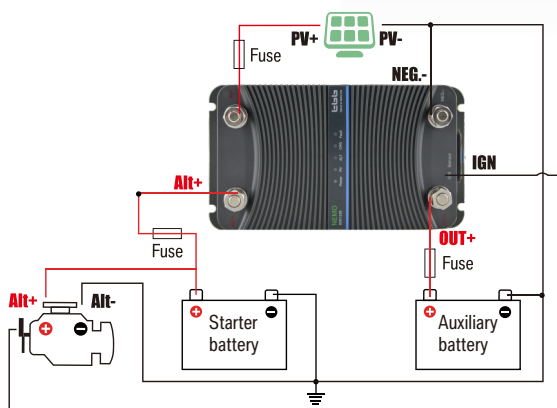


- Dual inputs from alternator and solar panel enabling simultaneous charging (DDX and IDDX models).
- Compatible with standard and smart alternators -Euro 6.
- TBB premium multi-stage charging algorithm.
- Built in automatic temperature and voltage compensated battery charging.
- Suitable for most battery types including AGM, GEL and Lithium – user selectable.
- Models with built-in Max Power point Tracking (MPPT) solar controller which generates up to 30% more energy available.
- Compact and Waterproof, IP63 rated.
- Simple LED indicator.
- Easy to install saving on installation time.
- Wide operating temperature $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$.
- Acts as battery isolator between starter and auxiliary battery.
- Multiple units can be connected in parallel to increase output current.
- Provides maintenance solar charge to starter battery when auxiliary battery is full.
- E-mark approval.
- 2-year warranty.

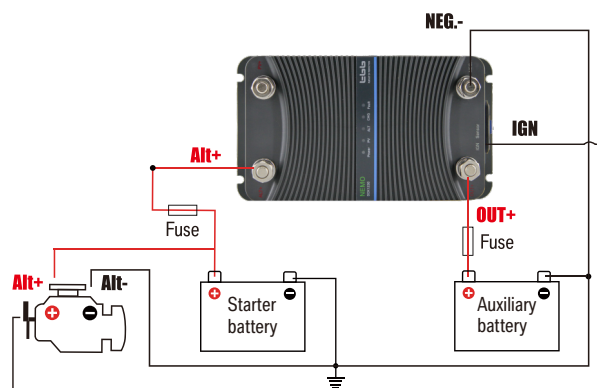
Lithium battery compatible

The Nemo battery to battery charger is suitable for use with lithium batteries that require a different charging profile to lead acid.

Built in temperature compensated charging ensures lithium batteries are charged with an optimum charging algorithm which is important when for lithium batteries in a cold environment.



DDX



DX

Model No.	DX1230	DDX1230	DX1215	DX2415	DDX2415
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Electrical

Input nominal voltage(VDC)	12			24	
Alternator input voltage range (smart type)	12-16VDC			24-32VDC	
Alternator input voltage range (conventional type)	13.2-16VDC			26.4-32VDC	
Automatic activation -D+	Yes				
MPPT	N / A	Yes	N / A	N / A	Yes
PV input voltage range	N / A	12-25VDC	N / A	N / A	24-50VDC
Output nominal voltage (VDC)	12			24	
Charge current	30A		15A		
Efficiency	MAX 97%				
Standby current	≤ 5mA				
Battery type	AGM \ GEL \ LFP \ WET				
Temperature compensation	Yes				
Voltage compensation	Yes				
Charge algorithm	TBB premium II multi stages				
Protection	Charger over temperature/Battery over temperature/Over load/ Short circuit/Battery low voltage(below 2V)				
Operating temperature	-20 to +60°C				

Enclosure

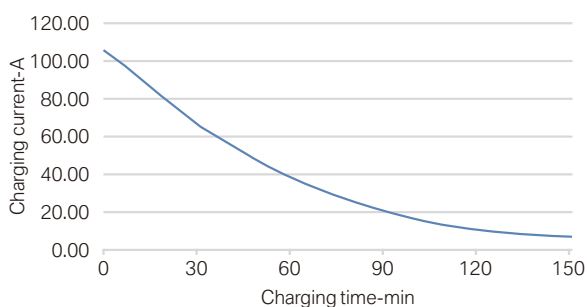
Material	Aluminum with anodized, flame proof plastic
Battery connection	M8
Protection category	IP63
Weight	0.9kg
Dimension	186.3*102.3*60mm

Standard

Automotive	E4-10R
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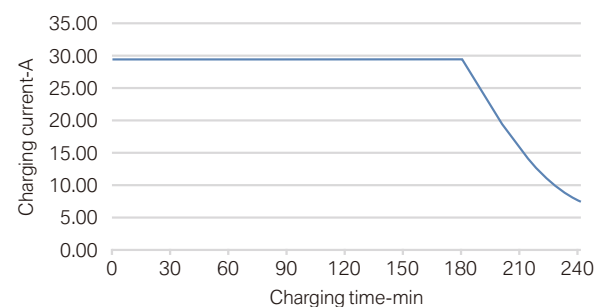
Charging test using VCR / VSR

- With alternator output voltage at 13.8V
- Battery voltage 10.8V
- Ambient temperature 22.0°C



Charging test using NEMO

- With alternator output voltage at 13.8V
- Battery voltage 10.8V
- Ambient temperature 22.0°C



60% more energy being charged