Motormate®
MOBILE DC POWER SOURCE

DC-DC BOOSTER CHARGER

Best for charging batteries from mobile homes distance connection

Modern mobile electronic and computer base device are required a stable and clean voltage supply in order to keep the device working at its best performance. Many of the chargers operated from the generator are unstable and will shorten the lifetime of the battery and electronic device.

The Motormate smart four-steps DC-DC booster charger is ideally to run the electrical appliance in motor home, trucks and pleasure boat. It can be installed in caravan or marine where it is necessary to charge battery from an unstable charging system and to compensate for line loss from long distance charging.

Galvanic isolated with electrically isolated input and output voltage means you can connect to any loads without interruption from input to the output. External power on/off controls the booster charger from the vehicle engine to save energy while it is in idle.

Specification:

- Galvanic isolated
- Low ripple &noise
- Ignition protected
- Four-steps charging
- Power supply mode
- Boost Charging Mode
- User-friendly LED display
- Remote power on/off
- EMC interference immunity
- Regulated output voltage
- Allow parallel operation
- Compact and lightweight
- High energy efficiency

Galvanic Isolated

CONFORMS ROHS COMPLIANT

CE

Available from
Input: 12V / 24V
Output: 10A - 40A

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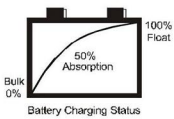
Whenever you need a stable and clean DC voltage, the MOTORMATE compact DC - DC Isolated 4 stage Boost charger can charge up your batteries faster than many other devices with higher energy efficiency. Its latest switch-mode technology designed in compact size let you easy to place and install in all modern automobile applications at anytime and anywhere.

The 4 stage DC-DC Boost Charger is designed to charge Lead-acid batteries in dual battery systems to their best level, thanks to a smart 4-stage charging sequence and voltage boosting to deliver a full charge without the issue of voltage drops. This improves the charge delivered to your battery, increasing battery life and saving on premature battery failure.

1st stage is to ensure battery is always charged at the maximum charging condition. This is to boost up the charging cycle and particularly wake up a weak battery to absorb energy.
2nd stage, the battery is charged at the maximum current to the battery.
3rd stage, the device is delivering constant voltage to the battery with reduced current.
4th stage, the battery has been charged to about 90% of its rated capacity. The charging current is decreased and the charging voltage is held at a constant level.



Specification

MODEL	SDC-1120A	SDC-1130A	SDC-1140A	SDC-2210A	SDC-2215A	SDC-2220A
Max. DC output	20A	30A	40A	10A	15A	20A
Input Voltage	12VDC (10 ~ 16VDC operative)			24VDC (20 ~ 31VDC operative)		
Bulk / Absorption	14.2V / 14.6V / 14.8V			28.4V / 29.2V / 29.6V		
Float Charging	13.2V / 13.5V / 13.8V			26.4V / 27.0V / 27.6V		
Power Supply Mode	13.2V / 13.5V / 13.8V			26.4V / 27.0V / 27.6V		
Line regulation	2.0% @ input range					
Efficiency	Up to 90%					
Over charge protected	Yes, Max Charged Cycle @ Absorption, 6 hours					
FEATURES						
Remote control	Yes, power on after engine start up					
Galvanic isolated.	Yes, input and output is fully isolated					
PHYSICAL						
Input connection	Terminal block					
Output connection	Terminal block x 2					
LED display	Green – Charger On, Green – Float, Yellow – Absorption, Red - Bulk					
Operation	0°C to 40°C					
Ventilation	Thermal control cooling fan; auto start on overheated					
Weight (kg)	0.9	1.2	1.6	0.9	1.2	1.6
Dimensions (mm)	210 x 145 x 80	220 x 145 x 80	260 x 145 x 80	210 x 145 x 80	220 x 145 x 80	260 x 145 x 80

Specifications subject to change without notice.

PROTECTION

- Overload protected
- Ignition protected
- Short circuit protected
- Overheat protected