

LIBERGRID

DC-DC Charger

12VDC

DM1245S



The DM DC-DC charger series is designed for recreational vehicles, providing fast and reliable charging of auxiliary batteries from the alternator while driving. Compatible with Euro 6 smart alternators, it ensures stable output and full charging without overcharging or undercharging.

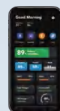
The latest DM models deliver enhanced continuous charging, combined with intuitive display control and Bluetooth connectivity for easy monitoring and configuration through mobile apps.

Features

- Fast and reliable charging for auxiliary batteries
- Compatible with Euro 6 engines and smart alternators
- Intelligent voltage and current regulation protects auxiliary batteries
- Supports TBB LIBER43 display, V28-BLE display and DTU-BLE Bluetooth module for monitoring and configuration via mobile app
- TBB multi-stage charging algorithm with automatic temperature compensation
- Non-isolation design with max efficiency 96%
- Plug and Play for easy installation
- Fanless natural cooling
- Reverse Charging: maintains starter battery with up to 3A charge to prevent drainage and ensure reliable engine starts.
- Supports RS485 communication
- Comprehensive protection: input/output overvoltage, battery low voltage, and more



APP



V28-BLE

- 2.8" LCD for displaying TBB DC-DC charger information and configuring settings
- With Bluetooth connectivity to support mobile APP



APP



DTU-BLE

- Compact & light-weight design
- Convenient installation at any open space
- Available for TBB systems & products
- Support Bluetooth & RS485

Model NO.

DM1245S

Electrical

Alternator input voltage range (default setting)	13.2-16VDC
Automatic activation D+	Yes
Absorption charge voltage (default setting)	14.6VDC
Float charge voltage (default setting)	13.5VDC
Charge current (max)	45A
Total current of load and charging (max)	45A
Maximum charging efficiency	96%
Temperature compensation	Default Setting: -3mV/°C/cell
Charge algorithm	TBB premium II multi stage
Protection	Battery charger over temperature, battery over temperature, over load, short circuit
Back-charging function	Standard
Communication	RS485, RJ45 connector
Storage temperature	-40°C ~ +70°C
Operating temperature	-40°C ~ +70°C

Enclosure

Battery connection	Cable with connector
Protection category	IP20
Weight	1.0kg
Dimensions	181 × 148 × 52mm

Standard

Emission	ECE 10R-06, EN61000-6-1, EN61000-6-3
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