

TECHNICAL SPECIFICATIONS

DMT1250

12 VAC Series
DC - DC 50A Charger

Alternator or
PV Input



Product features

- Dual input MPPT Solar input and Auxiliary input.
- Multi-stage charging ensures batteries are charged to battery manufacturer's recommendations.
- Microprocessor controlled charging algorithm (Bulk, Absorption, Float) for Gel, Program, AGM Lithium, and Flooded batteries with equalization.
- MPPT solar regulator provides maximum power from solar panels to battery.
- Silent Mode for quiet operation.

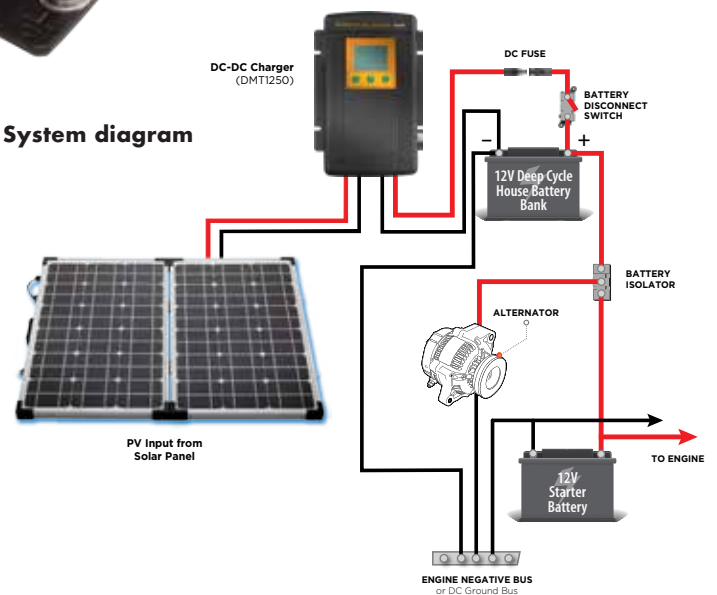
Product dimensions

Width: 9.5", Length: 6.8", Height: 2.9" (242mm x 172mm x 74mm)
Base width: 170mm

Specifications subject to change without notice.

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System diagram



Terminal Connections



HARDWARE

DMT1250

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DC - DC 50A Charger

DC Controller Output

Output Current (Maximum)	50A
Output Voltage Range:	
Charge	13.5 - 15.5V
Float	13.0 - 13.8V
Equalize	15.5V
Charging Control	5 Stages (Test/Bulk/Absorption/Float/Recharge)
DC Output Bank	One
Selectable Battery Type	Gel, Flooded (with Eq.), AGM, Lithium, Program, Fixed Power Supply
Parasitic Current	< 200 uA
Efficiency	> 90%

DC Input (Battery/Alternator)

DC Input Range	10.5 - 32Vdc
DC Input Nominal Operation	12.8V for 12V charging system 25.6V for 24V charging system
Engine Start Control: ON	DC input from Battery/Alternator
Engine Start Control: OFF	DC Input from PV input (if applicable)
Maximum Input Current	30A

DC Input (PV Input)

DC Input Range	10 - 50 Vdc
DC Input Nominal Operation:	17.5Vdc for 12V PV panels connected in parallel 35Vdc for 12V PV panels connected in series
MPPT Tracking Efficiency	> 98%

DC Output Protection and Features

Reverse Battery	Yes (shutdown), Auto Reset
DC Output Short Circuit	Yes (shutdown), Auto Reset
Over Charge	Yes (shutdown), Auto Reset
Over temperature	Yes (de-rated and shutdown)
DC Fuse	2* 15A, 32V 2* 30A, 32V
Cooling	Force Air Ventilation
Temperature Setting	Hot, Normal, Cold (no sensor connected)
Battery Temperature Sensor Port	RJ12 (optional Battery Temperature Sensor use)
Digital Display Port	RJ12 (optional Display Panel use)

Display Panel

Display	LED display with back lighting
Digital Display	Voltage, Current, Status, Error Code

Display (codes)

Indicator on unit	Flashing green LED: Charging in progress Solid green LED: Fully Charged
Warning and Fault Code	On unit: Fault LED (red) Digital display: A01, E01-09

Enclosure

DC Input Connection	Hardwire
DC Output Connection	Hardwire

Size

Dimensions (W x L x H)	9.5" x 6.8" x 2.9" (242mm x 172mm x 74mm)
Net Weight	4.1 lbs. / 1.85 Kg

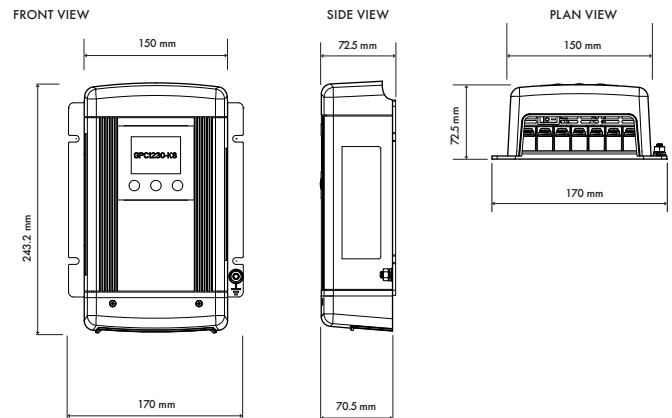
Accessories (optional)

Remote Panel	DMT RM01 (For viewing unit status, adjusting settings)
Battery Temperature Sensor	BTS 10K (For battery charging voltage adjustment)

Regulatory Compliance

Markings	cETLus
Conformance	UL & CSA Standards
EMI/EMC	FCC Part 15 Class B

Schematic Drawings



Standard warranty

1 year warranty



This product carries a cETLus safety certification which complies with the Regulatory safety standards for North America.

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Distributor:

¹Tested to E9-09