

TECHNICAL SPECIFICATIONS

DMT12100

12V Series
DC - DC 100A Charger

Alternator or
PV Input

NEW



Product features

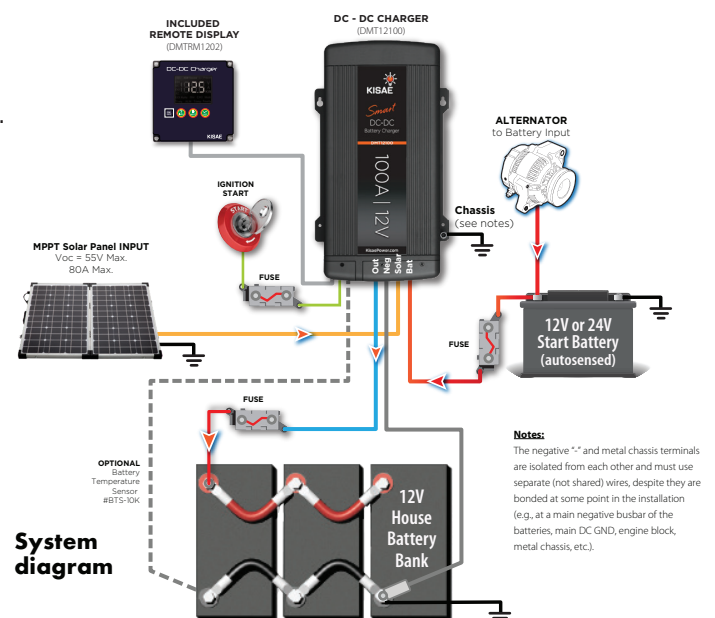
- Dual input: MPPT Solar input or Alternator/Battery input.
- Multi-stage charging ensures batteries are charged to battery manufacturer's recommendations.
- Microprocessor controlled charging algorithm (Bulk, Absorption, Float) for Gel, Flooded, AGM and Lithium batteries
- Solar Input to trickle charge Alternator Input battery.
- MPPT solar regulator provides maximum power from solar panels to battery.

Product dimensions

Length: 14.0", Width: 8.1", Height: 3.8" (356mm x 205mm x 97mm)
Weight: 7.1 lbs. / 3.23 Kg

Specifications subject to change without notice.

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Terminal Connections



KISAE has provided this drawing as a guide only. Installers using it must ensure the system is installed to meet local code requirements.

Please refer to the Owner's Manual for proper fuse protection and wire sizing.

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DC Controller Output

Output Current (Maximum)	100A
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 Equalization), AGM, Lithium, Program
Parasitic Current	< 500 uA
Efficiency	> 90%

DC Input (Battery/Alternator)

DC Input Range	10.5 - 32Vdc
DC Input Nominal Operation	13.2V for 12V input charging system 26.4V for 24V input 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	100A

DC Input (PV)

Max. PV Open Circuits Voltage	55Vdc,
Max. Input Current:	80A max.
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)
Cooling	Force Air Ventilation
Temperature Setting	High, Normal, Low (no battery temp. sensor connected)
Battery Temperature Sensor Port	RJ12 (optional Battery Temperature Sensor use)
Digital Display Port	RJ12 (Remote Panel use)

Display Panel

Digital Display	LCD display with back lighting
Model # DMTRM1202	(Voltage, Current, Status, Error Code)
Communication	CANBUS

Enclosure

DC Input Connection	Hardwire
DC Output Connection	Hardwire

Size

Dimensions (L x W x H)	14.0" x 8.1" x 3.8" (356mm x 205mm x 97mm)
Net Weight	7.1 lbs. / 3.23 Kg

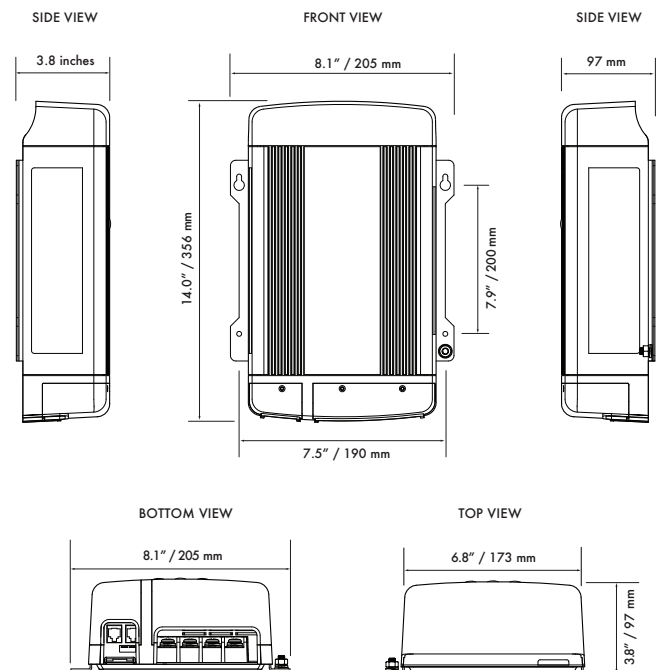
Accessories (optional)

Battery Temperature Sensor	BTS 10K (For battery charging voltage adjustment)
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Regulatory Compliance

Markings	CE, e-Mark
Conformance	LVD, EMC
EMI/EMC	CE EMC / Tested to E9-09

Schematic Drawings



Standard warranty

2 year warranty



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