

TECHNICAL SPECIFICATIONS

DMT1230

12 VAC Series
DC - DC 30A 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.

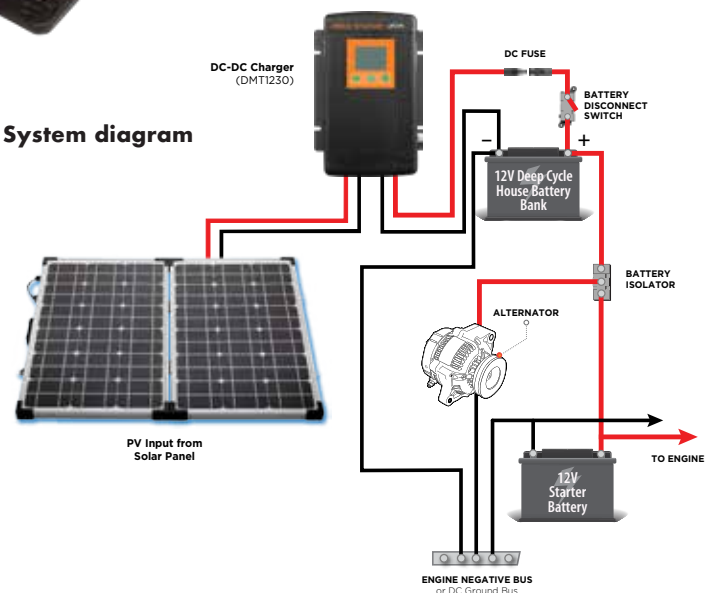
Product dimensions

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

DMT1230

12 VAC Series
DC - DC 30A Charger

DC Controller Output

| | |
|--------------------------|--|
| Output Current (Maximum) | 30A |
| 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 | < 200uA |
| 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 |

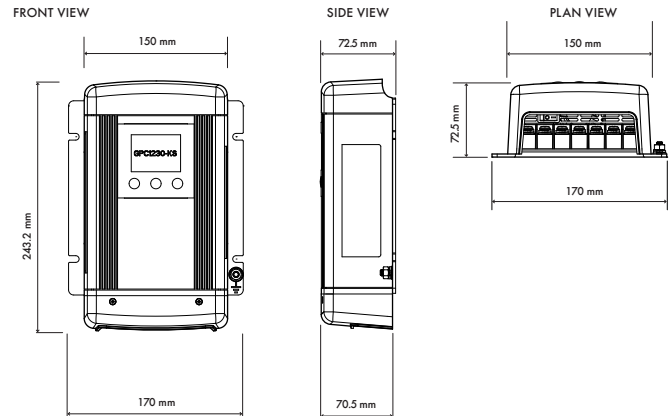
Accessories (optional)

| | |
|----------------------------|--|
| 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.

All specifications subject to change without notice.
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Distributor:

¹Tested to E9-09