

# DC Master 48/12-20



The required voltage for DC current can vary. Some equipment requires 24 V, while onboard equipment usually requires 12 V. For custom DC current, Mastervolt offers a series of compact and made to measure DC-DC converters for both 12 V and 24 V battery systems that offer stable power with the right current for any connected consumer. There is a wide range of DC Master converters available, including insulated and non-insulated models.

- Recreational and semi-professional use.
- Easy to install using included mounting bracket.
- Excellent price/performance ratio.
- Available in isolated and non-isolated version.

The non-isolated DC Master models have an electrical connection between the input and output.

Features:

- Low costs.
- Efficient: low heat generation.
- Compact.
- Suited to applications with negative earthing.

The isolated DC Master models provide galvanic isolation between input and output circuits.

Features:

- Extra touch-proof.
- Interference suppression for sensitive equipment.
- Available with negative or positive grounding.

### **Intelligent DC-DC converters**

A large benefit of the DC Master models is their two minutes of extra capacity; ideal if you need a short power boost.

### **Complete package**

All DC Master converters are delivered with mounting bracket, screws and fasteners.

# Specifications

## General specifications

|                                            |                                          |
|--------------------------------------------|------------------------------------------|
| Nominal output voltage                     | 13.6 V                                   |
| Max. output power                          | 326 W                                    |
| Nominal output power                       | 272 W                                    |
| Max. output current (for 2 min. intervals) | 24 A                                     |
| Continuous output current                  | 20 A                                     |
| Nominal input voltage                      | 48 V                                     |
| Input voltage range (max.)                 | 40-62 V DC (65 V)                        |
| Galvanic isolation                         | no                                       |
| Stabilised                                 | yes                                      |
| Dimensions, h x w x d                      | 217 x 87 x 50 mm<br>8.5 x 3.4 x 2.0 inch |
| Weight                                     | 0.77 kg<br>1.7 lb                        |
| Compliance                                 | CE                                       |

## Technical specifications

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| DC consumption                    | < 25 mA                                            |
| Connections                       | fast-on                                            |
| Temperature range (ambient temp.) | -25 °C to 80 °C, derating > 30 °C<br>-13 to 176 °F |
| Cooling                           | natural cooling                                    |
| Protection degree                 | IP53                                               |