

# MASTERVOLT

THE POWER TO BE INDEPENDENT

## DC Master

12/12-3A isolated; 12/12-6A isolated; 12/24-3A; 12/24-7A; 24/12-3A (isolated);  
24/12-6A (isolated); 24/12-12A (isolated); 24/12-24A (isolated); 24/24-3A  
isolated; 24/24-7A isolated; 48/12-6A; 48/12-9A; 48/12-20A

DC-DC converter / DC-DC converter / DC-DC Wandler /  
convertisseur CC-CC / convertidor CC-CC / convertitore CC-CC



USER MANUAL

- Be sure that the output of the supplying source is switched off during installation. Also be sure that no consumers are connected to the batteries during installation, to prevent hazardous situations.
- Check that the battery voltage is the same as the converter's input voltage (e.g. 24V battery for a 24V input voltage). Also check that the output voltage satisfies loading requirements
- Integrate a fuse in the positive wiring, nearby the battery.

See figures. 1. Select a cool, dry and ventilated position. 2. Use the bracket to mark the position of the holes. 3. Drill 3.5mm holes. 4. Fix the clip using screws provided. 5. Click the unit onto the clip.

6. Connect both input wires first. Only then connect the output wires.

## SPECIFICATIONS

### Non-isolated models

Model	24/12-3A	24/12-6A	24/12-12A	24/12-24A	48/12-6A	48/12-9A	48/12-20A	12/24-3A	12/24-7A
Article no.	81400100	81400200	81400300	81400330	81400600	81400700	81400800	81400400	81400500
hxwd [mm]	67x87x50	89x87x50	127x87x50	167x87x50	89x87x50	127x87x50	217x87x50	89x87x50	167x87x50
Weight [g]	225	270	405	635	415	415	765	290	610
Nominal input voltage	24 V	24 V	24 V	24 V	48 V	48 V	48 V	12 V	12 V
Input range full output	20-32 V	20-32 V	20-32 V	20-32 V	40-62 V	40-62 V	40-62 V	10-15.5 V	10-15.5 V
Input range no defects	0-35 V DC	0-35 V DC	0-35 V DC	0-35 V DC	0-65 V DC	0-65 V DC	0-65 V DC	0-16 V DC	0-16 V DC
Nominal Output voltage	13.6 V	13.6 V	13.6 V	13.6 V	13.6 V	13.6 V	13.6 V	27.2 V	27.2 V
Max. output power	82 W	136 W	245 W	408	109 W	132 W	326	109 W	245 W
Nom. output power	41 W	82 W	164 W	326	82 W	108 W	272	82 W	191 W
Curr. max 2min/cont.	6 A / 3 A	10 A / 6 A	18 A / 12 A	30 A / 24 A	8 A / 6 A	11 A / 9 A	24 A / 20 A	4 A / 3 A	9 A / 7 A
No load consumption @ nominal input voltage	< 10 mA	< 10 mA	< 10 mA	< 10 mA	< 100 mA	< 100 mA	< 100 mA	< 110 mA	< 120 mA

### Isolated models

Model	12/12-3A	12/12-6A	24/12-3A	24/12-6A	24/12-12A	24/12-24A	24/24-3A	24/24-7A
Article no.	81500600	81500700	81500100	81500200	81500300	81500350	81500400	81500500
hxwd [mm]	89x87x50	162x87x50	89x87x50	127x87x50	167x87x50	217x87x50	127x87x50	185x87x50
Weight [g]	290	540	290	410	590	850	590	820
Nominal input voltage	12 V	12 V	24 V	24 V	24 V	24 V	24 V	24 V
Input range, full output	10-15.5 V	10-15.5 V	20-32 V DC	20-32 V DC	20-32 V DC	20-32 V DC	20-32 V DC	20-32 V DC
Input range, no defects	0-16 V DC	0-16 V DC	0-35 V DC	0-35 V DC	0-35 V DC	0-35 V DC	0-35 V DC	0-35 V DC
Nominal output voltage	13.6 V	13.6 V	13.6 V	13.6 V	13.6 V	13.6 V	27.2 V	27.2 V
Maximum output power	54 W	95 W	82 W	136 W	245 W	408 W	109 W	245 W
Nominal output power	41 W	82 W	41 W	82 W	164 W	326 W	82 W	191 W
Current max. 2 minutes/ continuous	4 A / 3 A	7 A / 6 A	6 A / 3 A	10 A / 6 A	18 A / 12 A	30 A / 24 A	4 A / 3 A	9 A / 7 A
No load consumption @nominal input voltage	< 100 mA	< 100 mA	< 10 mA	< 10 mA	< 10 mA	< 10 mA	< 100 mA	< 100 mA

### General specifications

Stabilisation	Yes
Temperature range	0 to 30 °C, thereafter linear derating till 80 °C / storage temperature : -25 °C to 85 °C
Protection degree	IP 53 (12/12-6 A: IP 20)
Operating humidity	95% max., non condensing
Connections input/output	Faston
Cabinet	Anodized aluminium, glass filled pc, dust and water resistance to IP53
Markings	CE and E-mark; e11 020894, e13 023114
Complete package	All DC Master converters come with a mounting bracket, screws and fastons.

# INSTALLATION

