

Specifications DC Master converters



24/12-3A
81400100



24/12-6A
81400200



24/12-12A
81400300



24/12-12A
81400330

Product code

INPUT SPECIFICATIONS

Nominal input voltage	24 V	24 V	24 V	24 V
Input range	20-32 V DC	20-32 V DC	20-32 V DC	20-32 V DC

OUTPUT SPECIFICATIONS

Nominal output voltage	13.6 V	13.6 V	13.6 V	13.6 V
Maximum power	82 W	136 W	245 W	408 W
Nominal power	41 W	82 W	164 W	326 W
Current max. 2 minutes* / continuous	6 A / 3 A	10 A / 6 A	18 A / 12 A	30 A / 24 A
DC consumption	< 10 mA	< 10 mA	< 10 mA	< 10 mA

GENERAL SPECIFICATIONS

Dimensions, hwxwd	67x87x50 mm 2.6x3.4x2 inch	89x87x50 mm 3.5x3.4x2 inch	127x87x50 mm 5x3.4x2 inch	167x87x50 mm 6.6x3.4x2 inch
Weight	225 gr / 0.5 lbs	270 gr / 0.6 lbs	405 gr / 0.9 lbs	635 gr / 1.4 lbs
Approvals	CE, E-mark	CE, E-mark	CE, E-mark	CE, E-mark
Galvanic isolation	no	no	no	no
Stabilised	yes	yes	yes	yes
Connections input/output	fast-on	fast-on	fast-on	fast-on
Temperature range (ambient temp.)	_____	-25 °C to 80 °C, > 30 C derating power	_____	_____
Cooling	natural cooling	natural cooling	natural cooling	natural cooling
Sound level	< 30 dBA at 1 mtr	<30 dBA at 1 mtr	< 30 dBA at 1 mtr	<30 dBA at 1 mtr
Protection degree	IP53	IP53	IP53	IP53

* Two minutes of extra power for short power boosts.



12/12-3A
81500600



12/12-6A
81500700



24/12-3A
81500100



24/12-6A
81500200

Product code

INPUT SPECIFICATIONS

Nominal input voltage	12 V	12 V	24 V	24 V
Input range	20-32 V DC	20-32 V DC	20-32 V DC	20-32 V DC

OUTPUT SPECIFICATIONS

Nominal output voltage	13.6 V	13.6 V	13.6 V	13.6 V
Maximum power	54 W	108 W	82 W	136 W
Nominal power	41 W	81 W	41 W	82 W
Current max. 2 minutes* / continuous	4 A / 3 A	8 A / 6 A	6 A / 3 A	10 A / 6 A
DC consumption	< 100 mA	< 100 mA	< 10 mA	< 10 mA

GENERAL SPECIFICATIONS

Dimensions, hwxwd	89x87x50 mm 3.5x3.4x2 inch	217x87x50 mm 8.5x3.4x2 inch	89x87x50 mm 3.5x3.4x2 inch	127x87x50 mm 5x3.4x2 inch
Weight	290 gr / 0.6 lbs	820 gr / 1.8 lbs	290 gr / 0.6 lbs	410 gr / 0.9 lbs
Approvals	CE, E-mark	CE, E-mark	CE, E-mark	CE, E-mark
Galvanic isolation	yes	yes	yes	yes
Stabilised	yes	yes	yes	yes
Connections input/output	fast-on	fast-on	fast-on	fast-on
Temperature range (ambient temp.)	_____	-25 °C to 80 °C, > 30 C derating power	_____	_____
Cooling	natural cooling	natural cooling	natural cooling	natural cooling
Sound level	< 30 dBA at 1 mtr	< 30 dBA at 1 mtr	< 30 dBA at 1 mtr	< 30 dBA at 1 mtr
Protection degree	IP53	IP53	IP53	IP53

See www.mastervolt.com/dcdc-converters for detailed specifications, dimension drawings, certificates and manuals.



24/12-50A
81400350



12/24-3A
81400400



12/24-7A
81400500



48/12-6A
81400600



48/12-9A
81400700



48/12-20A
81400800

24 V	12 V	12 V	48 V	48 V	48 V
20-32 V DC	10-15.5 V DC	10-15.5 V DC	40-62 V DC	40-62 V DC	40-62 V DC
13.6 V	27.2 V	27.2 V	13.6 V	13.6 V	13.6 V
720 W	109 W	245 W	109 W	132 W	326 W
500 W	82 W	191 W	82 W	108 W	272 W
60 A / 50 A	4 A / 3 A	9 A / 7 A	8 A / 6 A	11 A / 9 A	24 A / 20 A
< 10 mA	< 110 mA	< 120 mA	< 15 mA	< 15 mA	< 15 mA
300x76x110 mm	89x87x50 mm	167x87x50 mm	89x87x50 mm	127x87x50 mm	217x87x50 mm
11.8x3x4.3 inch	3.5x3.4x2 inch	6.6x3.4x2 inch	3.5x3.4x2 inch	5x3.4x2 inch	8.5x3.4x2 inch
1.2 kg / 2.6 lbs	290 gr / 0.6 lbs	610 gr / 1.3 lbs	415 gr / 0.9 lbs	415 gr / 0.9 lbs	765 gr / 0.9 lbs
CE, E-mark	CE, E-mark	CE, E-mark	CE, E-mark	CE, E-mark	CE, E-mark
no	no	no	no	no	no
yes	yes	yes	yes	yes	yes
fast-on	fast-on	fast-on	fast-on	fast-on	fast-on
-25 °C to 80 °C, > 30 C derating power					
natural cooling	natural cooling	natural cooling	natural cooling	natural cooling	natural cooling
< 30 dBA at 1 mtr	< 30 dBA at 1 mtr	< 30 dBA at 1 mtr	< 30 dBA at 1 mtr	< 30 dBA at 1 mtr	< 30 dBA at 1 mtr
IP53	IP53	IP53	IP53	IP53	IP53



24/12-12A
81500300



24/12-24A
81500350



24/24-3A
81500400



24/24-7A
81500500

24 V	24 V	24 V	24 V
20-32 V DC	20-32 V DC	20-32 V DC	20-32 V DC
13.6 V	13.6 V	27.2 V	27.2 V
245 W	408 W	109 W	245 W
164 W	326 W	82 W	191 W
18 A / 12 A	24 A / 30 A	4 A / 3 A	9 A / 7 A
< 10 mA	< 10 mA	< 25 mA	< 25 mA
167x87x50 mm	217x87x50 mm	127x87x50 mm	217x87x50 mm
6.6x3.4x2 inch	8.5x3.4x2 inch	5x3.4x2 inch	8.5x3.4x2 inch
590 gr / 1.3 lbs	850 gr / 1.9 lbs	590 gr / 1.3 lbs	820 gr / 1.8 lbs
CE, E-mark	CE, E-mark	CE, E-mark	CE, E-mark
yes	yes	yes	yes
yes	yes	yes	yes
fast-on	fast-on	fast-on	fast-on
-25 °C to 80 °C, > 30 C derating power			
natural cooling	natural cooling	natural cooling	natural cooling
< 30 dBA at 1 mtr	< 30 dBA at 1 mtr	< 30 dBA at 1 mtr	< 30 dBA at 1 mtr
IP53	IP53	IP53	IP53

Benefits

- Recreational and semi-professional use.
- Easy to install using included mounting bracket, screws and fasteners.
- Smart electronics mean no unnecessary heat generation.
- Continuous output.
- Insulated and non-insulated models available.
- Two minutes of extra power for short power boosts.
- Excellent price/performance ratio.