

# Specifications DC Master converters



## Non Isolated

|                                      | <b>DC Master<br/>24/12-3A</b>             | <b>DC Master<br/>24/12-6A</b>             | <b>DC Master<br/>24/12-12A</b>            | <b>DC Master<br/>24/12-24A</b>            |
|--------------------------------------|---|---|---|---|
| Product code                         | 81400100                                  | 81400200                                  | 81400300                                  | 81400330                                  |
| <b>INPUT SPECS</b>                   |   |   |   |   |
| 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                                |
| <b>OUTPUT SPECS</b>                  |   |   |   |   |
| 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                               |
| Parallel configuration               | yes, up to 10                             | yes, up to 10                             | yes, up to 10                             | yes, up to 10                             |
| DC consumption                       | < 10 mA                                   | < 10 mA                                   | < 10 mA                                   | < 10 mA                                   |
| <b>GENERAL SPECS</b>                 |   |   |   |   |
| Dimensions, hwxwx                    | 67 x 87 x 50 mm<br>2.6 x 3.4 x 2 inch     | 89 x 87 x 50 mm<br>3.5 x 3.4 x 2 inch     | 127 x 87 x 50 mm<br>5 x 3.4 x 2 inch      | 167 x 87 x 50 mm<br>6.6 x 3.4 x 2 inch    |
| Weight                               | 225 g / 0.5 lb                            | 270 g / 0.6 lb                            | 405 g / 0.9 lb                            | 635 g / 1.4 lb                            |
| 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,<br>> 30 C derating power | -25 °C to 80 °C,<br>> 30 C derating power | -25 °C to 80 °C,<br>> 30 C derating power | -25 °C to 80 °C,<br>> 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                                      |

## Isolated



|                                      | <b>DC Master<br/>12/12-3A</b>             | <b>DC Master<br/>12/12-6A</b>             | <b>DC Master<br/>24/12-3A</b>             | <b>DC Master<br/>24/12-6A</b>             |
|--------------------------------------|---|---|---|---|
| Product code                         | 81500600                                  | 81500700                                  | 81500100                                  | 81500200                                  |
| <b>INPUT SPECS</b>                   |   |   |   |   |
| Nominal input voltage                | 12 V                                      | 12 V                                      | 24 V                                      | 24 V                                      |
| Input range                          | 10-15.5 V                                 | 10-15.5 V                                 | 20-32 V DC                                | 20-32 V DC                                |
| <b>OUTPUT SPECS</b>                  |   |   |   |   |
| 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                                |
| Parallel configuration               | yes, up to 10                             | yes, up to 10                             | yes, up to 10                             | yes, up to 10                             |
| DC consumption                       | < 100 mA                                  | < 100 mA                                  | < 10 mA                                   | < 10 mA                                   |
| <b>GENERAL SPECS</b>                 |   |   |   |   |
| Dimensions, hwxwx                    | 89 x 87 x 50 mm<br>3. 3.4 x 2 inch        | 217 x 87 x 50 mm<br>8.5 x 3.4 x 2 inch    | 89 x 87 x 50 mm<br>3.5 x 3.4 x 2 inch     | 127 x 87 x 50 mm<br>5 x 3.4 x 2 inch      |
| Weight                               | 290 g / 0.6 lb                            | 820 g / 1.8 lb                            | 290 g / 0.6 lb                            | 410 g / 0.9 lb                            |
| 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,<br>> 30 C derating power | -25 °C to 80 °C,<br>> 30 C derating power | -25 °C to 80 °C,<br>> 30 C derating power | -25 °C to 80 °C,<br>> 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                                      |



no picture available



**DC Master  
24/12-50A**

**DC Master  
12/24-3A**

**DC Master  
12/24-7A**

**DC Master  
48/12-6A**

**DC Master  
48/12-9A**

**DC Master  
48/12-20A**

81400352

81400400

81400500

81400600

81400700

81400800

24 V  
20-32 V DC

12 V  
10-15.5 V DC

12 V  
10-15.5 V DC

48 V  
40-62 V DC

48 V  
40-62 V DC

48 V  
40-62 V DC

13.6 V  
720 W  
500 W  
60 A / 50 A

27.2 V  
109 W  
82 W  
4 A / 3 A

27.2 V  
245 W  
191 W  
9 A / 7 A

13.6 V  
109 W  
82 W  
8 A / 6 A

13.6 V  
132 W  
108 W  
11 A / 9 A

13.6 V  
326 W  
272 W  
24 A / 20 A

yes, up to 10  
< 20 mA

yes, up to 10  
< 110 mA

yes, up to 10  
< 120 mA

yes, up to 10  
< 15 mA

yes, up to 10  
< 15 mA

yes, up to 10  
< 15 mA

283 x 125 x 74 mm  
11 x 4.9 x 2.9 inch

89 x 87 x 50 mm  
3.5 x 3.4 x 2 inch

167 x 87 x 50 mm  
6.6 x 3.4 x 2 inch

89 x 87 x 50 mm  
3.5 x 3.4 x 2 inch

127 x 87 x 50 mm  
5 x 3.4 x 2 inch

217 x 87 x 50 mm  
8.5 x 3.4 x 2 inch

1.8 kg / 4 lb

290 g / 0.6 lb

610 g / 1.3 lb

415 g / 0.9 lb

415 g / 0.9 lb

765 g / 0.9 lb

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

screw terminal

fast-on

fast-on

fast-on

fast-on

fast-on

-25 °C to 80 °C,  
> 30 C derating power

-25 °C to 80 °C,  
> 30 C derating power

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> 30 C derating power

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> 30 C derating power

-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



**DC Master  
24/12-12A**

**DC Master  
24/12-24A**

**DC Master  
24/24-3A**

**DC Master  
24/24-7A**

81500300

81500350

81500400

81500500

24 V  
20-32 V DC

24 V  
20-32 V DC

24 V  
20-32 V DC

24 V  
20-32 V DC

13.6 V  
245 W  
164 W  
18 A / 12 A  
yes, up to 10  
< 10 mA

13.6 V  
408 W  
326 W  
24 A / 30 A  
yes, up to 10  
< 10 mA

27.2 V  
109 W  
82 W  
4 A / 3 A  
yes, up to 10  
< 25 mA

27.2 V  
245 W  
191 W  
9 A / 7 A  
yes, up to 10  
< 25 mA

167 x 87 x 50 mm  
6.6 x 3.4 x 2 inch

217 x 87 x 50 mm  
8.5 x 3.4 x 2 inch

127 x 87 x 50 mm  
5 x 3.4 x 2 inch

217 x 87 x 50 mm  
8.5 x 3.4 x 2 inch

590 g / 1.3 lb

850 g / 1.9 lb

590 g / 1.3 lb

820 g / 1.8 lb

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

-25 °C to 80 °C,  
> 30 C derating power

-25 °C to 80 °C,  
> 30 C derating power

-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

\* Two minutes of extra power for short power boosts.

All DC Master converters come with a mounting bracket, screws and fast-ons.