

# Orion IP67 24/12 DC-DC converter

Not isolated

[www.victronenergy.com](http://www.victronenergy.com)

### Completely encapsulated: waterproof, shockproof and ignition protected

Water, oil or dirt will not damage the Orion IP67 DC-DC converter. The casing is made of cast aluminium and the electronics are moulded in resin.

### Extra-long input and output cables

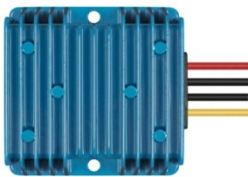
Thanks to the cables of 1.8 meters in length, intermediate cable interconnections to increase length even more will in most cases not be needed. This is an important reliability increasing feature in an area where IP67 protection grade is needed.

### Wide input voltage range

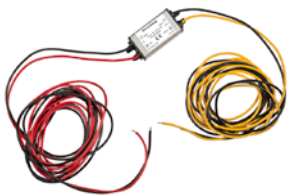
With 15 to 40 Volts input range, a stable output is ensured during surges or sags due to other equipment connected to same battery.

### Protected against overheating

Can be used in a hot environment such as a machine room.



**Orion IP67 24/12-17**



**Orion IP67 24/12-4  
with 1,8 m cables**

Orion IP67	24/12-5	24/12-10	24/12-20
Input voltage range	15-40 VDC		
Under voltage shutdown	13 V		
Under voltage restart	14 V		
No load current at 24V	1 mA	20 mA	50 mA
DC output voltage	12 V +/- 3%	12 V +/- 3%	12 V +/- 3%
Maximum continuous output current	5 A	10 A	20 A
Efficiency	93%	93%	95%
Ripple & Noise	75 mV pp		
Operating temperature range (derate 3% per °C above 40°C)	-20 to +70°C (full rated output up to 40°C)		
Overload protection	Hiccup mode, recovers automatically after fault condition is removed		
Short circuit proof	Yes		
Protection against reverse polarity connection	With external fuse or circuit breaker (not included)		
ENCLOSURE			
Material & Colour	Blank aluminium	Aluminium (blue RAL 5012)	
Protection category	IP67		
DC connection	Two input and two output cables, length 1,8 m		
Cable cross section, input	0,8 mm <sup>2</sup> (18 AWG)	1,5 mm <sup>2</sup> (15 AWG)	1,5 mm <sup>2</sup> (15 AWG)
Cable cross section, output	0,8 mm <sup>2</sup> (18 AWG)	1,5 mm <sup>2</sup> (15 AWG)	2,6 mm <sup>2</sup> (13 AWG)
Weight (kg)	50 g	300 g	300 g
Dimensions (h x w x d in mm)	25 x 43 x 20 mm	74 x 74 x 32 mm	74 x 74 x 32 mm
STANDARDS			
Safety	EN 60950		
Emission Immunity	EN 61000-6-3, EN 55014-1		
Automotive Directive	EN 55014-2, EN 61000-6-1, EN 61000-6-2		
Vibration	IEC68-2-6: 10-150Hz/1.0G		