Orion DC-DC Converters, isolated

360W models and special purpose models

www.victronenergy.com

Isolated Converters	Orion xx/yy-360W
Power rating (W)	360
Galvanic isolation	yes
Temperature increase after 30 minutes at full load (°C)	30
Fan assisted cooling (temp. controlled)	yes
Weight kg (lbs)	1,4 (3.1)
Dimensions hxwxd in mm (hxwxd in inches)	82 x 132 x 190 (3.2 x 5.2 x 7.5)
Input voltage (xx): 12V (9 – 18V) or 24V (20 – 35V) or 48V (30 – 60V) or 110V (60 – 140V)	
Output voltage (yy): 12,5V, 24V or 48V	

Isolated 24V battery charger: Orion 12/27,6-12
Input 9 – 18V, output 27,6V, current limit 12A, fan assisted cooling Output voltage adjustable with potentiometer Weight 1,4kg (3.1 lbs), dimensions 64 x 163 x 160mm (2.5 x 6.4 x 6.3 inch)

Isolated buck-boost regulator: Orion 7-35/12-3
Input 7 – 35V, output 12,6V current limit 3A, derate current linearly from 3A at 18V to 1,5A at 7V Weight 1,4kg (3.1 lbs), dimensions 64 x 163 x 160mm (2.5 x 6.4 x 6.3 inch)

Common Characteristics	
Output voltage stability	2% (Orion 12/24-7 and Orion 12/24-10: + 0% / - 5%)
Output voltage tolerance	3%
Output noise	< 50mV rms
Off load current	< 25mA (isolated converters)
Efficiency	Non-isolated: appr. 92% Isolated: appr. 85%
Isolation	> 400Vrms between input, output and case (isolated products only)
Operating temperature	- 20 to + 40°C (0 to 100°F). Derate linearly to 0A at 70°C (160°F)
Humidity	Max 95% non-condensing
Casework	Anodised aluminium
Connections	6.3mm (2.5 inch) push-on flat blade connectors
Protection: Overcurrent Overheating Reverse polarity connection Overvoltage	Short circuit proof Reduction of output voltage Fuse and reverse connected diode across input Varistor (also protects against load dump)
Standards: Safety Emission Immunity Automotive Directive	EN 60950 EN 61000-6-3, EN 55014-1 EN 61000-6-2, EN 61000-6-1, EN 55014-2 ECE R10-4

Orion isolated 360W

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