

Orion DC-DC Converters, high power

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Non-isolated – latest models



Orion 24/12-30

Remote on-off connector

The remote on-off eliminates the need for a high current switch in the input wiring. The remote on-off can be operated with a low power switch or by the engine run/stop switch (see manual).

All models with adjustable output can also be used as a battery charger

For example, to charge a 12 Volt starter or accessory battery in an otherwise 24V system.

All models with adjustable output can be paralleled to increase output current

Up to five units can be connected in parallel.

Easy to install

Power connections are Faston tabs, M6 studs, or binding posts, depending on the model. Female Faston crimp terminals (6.3 mm) are supplied only with Faston models.

Low power models: please see Orion-Tr series



Orion 24/12-60



Orion 24/12-80 & 48/12-60



Orion 24/12-80 with binding posts

Non isolated converters	Orion 24/12-30	Orion 24/12-60	Orion 24/12-80	Orion 48/12-60	Orion 12/24-8	Orion 12/24-10	Orion 12/24-20
Part number	ORI241230022	ORI241260020	ORI241280020 ORI241280030 (binding post)	ORI481260020	ORI122408020	ORI122410020	ORI122420020
Input voltage range (V)	18-35	18-35	18-35	38-66	9-18	9-18	9-18
Under voltage shutdown (V)	14	14	14	38	8	8	8
Under voltage restart (V)	18	18	18	40	10	10	10
Output voltage adjustable with potentiometer	yes	no	yes	yes	no	yes	yes
Output voltage (V)	Adjustable 10-15V F set 13,2V	13,2	Adjustable 10-15V F set 13,2V	Adjustable 10-15V F set 13,2V	24	Adjustable 20-30V F set 26,4V	Adjustable 20-30V F set 26,4V
Efficiency (%)	96	95	92	92	95	95	93
Suitable to buffer-charge a battery	yes	no	yes	yes	no	yes	yes
Can be connected in parallel	yes	no	yes	yes	no	yes	yes
Continuous output current (A)	30	60	80	60	8	10	20
Max. Output current (A)	40	70	90	65	20	20	30
Fan assisted cooling (temp. controlled)	no	yes	yes	yes	no	no	yes
Galvanic isolation	no	no	no	no	no	no	no
Off load current	< 15mA	< 20mA	< 20mA	< 20mA	< 10mA	< 15mA	< 30mA
Remote on-off	yes	yes	yes	yes	no	no	yes
Operating temperature range (derate 3% per °C above 40°C)	-20 to +55°C	-20 to +55°C	-20 to +55°C	-20 to +55°C	-20 to +55°C	-20 to +55°C	-20 to +55°C
DC connection	Faston tabs 6.3 mm	Double Faston tabs 6.3 mm	M6 bolts	M6 bolts	Faston tabs 6.3 mm	Faston tabs 6.3 mm	M6 bolts
Weight kg (lbs)	0,7 (1.55)	0,85 (1.9)	0,9 (2.0)	0,9 (2.0)	0,4 (0.8)	0,4 (0.9)	0,9 (2.0)
Dimensions h x w x d in mm (h x w x d in inches)	65x88x160 (2.6x3.5x6.3)	65x88x185 (2.6x3.5x7.3)	65x88x195 (2.6x3.5x7.7)	65x88x195 (2.6x3.5x7.7)	45x90x115 (1.8x3.5x4.5)	45x90x125 (1.8x3.5x4.5)	65x88x195 (2.6x3.5x7.7)
Standards: Safety Emission Immunity	EN 60950 EN 61000-6-3, EN 55014-1 EN 61000-6-2, EN 61000-6-1, EN 55014-2						