

ORION Non Isolated Series

NON ISOLATED DC-DC CONVERTERS

FEATURES

- 100 - 360W
- Isolated dc converter
- chassis mount
- ease to install
- Suitable for Battery charging
- Remote on/off



SPECIFICATIONS

INPUT

Input voltage	12V, (9 - 18V) 24V, (18 - 35V)
Undervoltage shutdown	12V, (8Vdc) 24V, (14Vdc)
Undervoltage restart	12V, (10Vdc) 24V, (18Vdc)

OUTPUT

Output voltage	12V, 24V See selection table
Output voltage tolerance	3%
Output noise	< 50mV rms
Efficiency	Typically 92%

PROTECTION

Overcurrent	Short circuit proof
Over heating	Reduction of output voltage
Reverse Polarity	Fuse and reverse connected diode across input
Over voltage	Varistor (also protects against load dump)
Galvanic Isolation	No

MECHANICAL

Dimensions	See selection table
Weight	See selection table
Casework	Anodised aluminium
Connections	6.3mm Faston push on flat blade connectors Orion 24/12-70 and 12/24-20; M6 bolts

ENVIRONMENTAL

Operating Temperature	-20°C to +40°C full load Derate linearly to 0A at 70°C
Humidity	Max 95% non condensing

STANDARDS AND APPROVALS

Safety	EN60950
Emission	EN55014-1, EN61000-6-3
Immunity	EN55014-2, EN61000-6-1, EN61000-6-2
Automotive Directive	EN50498

SELECTION TABLE

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	POWER	DIMENSIONS H x W x D mm	WEIGHT Kg
Orion 12/24-8	9-18V	24V	8A	192W	45 x 90 x 115	0.4
Orion 12/24-10	9-18V	20-30V adj - Set for 26.4V	10A	240W	45 x 90 x 125	0.4
Orion 12/24-20	9-18V	20-30V adj - Set for 26.4V	20A	480W	65 x 88 x 195	0.9
Orion 24/12-5	18-35V	12V	5A	60W	45 x 90 x 65	0.2
Orion 24/12-12	18-35V	12V	12A	144W	45 x 90 x 100	0.3
Orion 24/12-17	18-35V	12V	17A	204W	45 x 90 x 110	0.3
Orion 24/12-25	18-35V	10-15V adj - Set to 13.2V	25A	300W	65 x 88 x 160	0.7
Orion 24/12-40	18-35V	12V	40A	480W	65 x 88 x 185	0.85
Orion 24/12-70	18-35V	10-15V adj - Set to 13.2V	70A	840W	65 x 88 x 195	0.9