

Orion-Tr DC-DC converters

Non-isolated

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High efficiency

Using synchronous rectification, full load efficiency exceeds 95%.

IP43 protection

When installed with the screw terminals oriented downwards

Screw terminals

No special tools needed for installation



Orion-Tr 24/12-5 (60W)

Orion-Tr 24/12-10 (120W)

Non isolated converters	Orion-Tr 24/12-5	Orion-Tr 24/12-10	Orion-Tr 24/12-15	Orion-Tr 24/12-20
Input voltage range	18-35 V	18-35 V	18-35 V	18-35 V
Output voltage	12.7 V	12.5 V	12.5 V	12.5 V
Efficiency	95%	97%	97%	97%
Continuous output current	5 A	10 A	15 A	20 A
Max. Output current	7 A	12 A	20 A	25 A
Galvanic isolation	no	no	no	no
Off load current	< 20 mA	< 45 mA	< 35 mA	< 35 mA
Operating temperature range (derate 3% per °C above 40°C)	-20 to +55°C			
DC connection	Screw terminals			
Maximum cable cross-section	3,3 mm ² AWG12	6 mm ² AWG10	6 mm ² AWG10	6 mm ² AWG10
Weight kg (lbs)	0,09 (0.20)	0,2 (0.44)	0,25 (0.55)	0,25 (0.55)
Dimensions hxxwx d in mm (hxxwx d in inches)	53x51x27 (2.1x2x1.1)	73x94x37 (2.9x3.7x1.5)	73x94x45 (2.9x3.7x1.8)	73x94x45 (2.9x3.7x1.8)
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 EN 50498			