ORION-Tr ISOLATED DC-DC CONVERTERS 360 - 400 WATT

The **Orion-Tr Isolated DC-DC Converter** converts a source of direct current from one voltage level to another. The **Orion-Tr DC-DC's** 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, for example, the engine run/stop switch.

Features & Benefits:

- Remote on-off
- Adjustable output voltage: can also be used as a battery charger, for example, to charge a 12-volt starter or accessory battery in an otherwise 24-volt system.
- All models are short circuit proof and can be paralleled to increase output current. An unlimited number of units can be connected in parallel.
- IP43 protection when installed with the screw terminals oriented downwards
- Screw terminals - no special tools needed for installation
- Input fuse on 12 and 24 V input models only

Isolated Converters 360 - 400 watt	Orion-Tr 12/12 - 30 (360 w)	Orion-Tr 12/24 - 15 (360 w)	Orion-Tr 24/12 - 30 (360 w)	Orion-Tr 24/24 - 17 (400 w)	Orion-Tr 24/48 - 8.5 (400 w)	Orion-Tr 48/12 - 30 (360 w)	Orion-Tr 48/24 - 16 (380 w)	Orion-Tr 48/48 - 8 (380 w)
Part No.	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA
Input Voltage Range(1)	10 - 17 V	10 - 17 V	20 - 35 V	20 - 35 V	20 - 35 V	40 - 70 V	40 - 70 V	40 - 70 V
Under Voltage Shutdown	7 V	7 V	14 V	14 V	14 V	28 V	28 V	28 V
Under Voltage Restart	7.5 V	7.5 V	15 V	15 V	15 V	30 V	30 V	30 V
Nominal Output Voltage	12.2 V	24.2 V	12.2 V	24.2 V	48.2 V	12.2 V	24.2 V	48.2 V
Output Voltage Adjust Range	10 - 15 V	20 - 30 V	10 - 15 V	20 - 30 V	40 - 60 V	10 - 15 V	20 - 30 V	40 - 60 V
Output Voltage Tolerance	± 0.2 V							
Output Noise	2 m Vrms							
Cont. Output Current at Nominal Output Voltage and 25 °C	30 A	15 A	30 A	17 A	8.5 A	30 A	16 A	8 A
Maximum Output Current (10 S) at Nominal Output Voltage	40 A	25 A	45 A	25 A	15 A	40 A	25 A	15 A
Short Circuit Output Current	60 A	40 A	60 A	40 A	25 A	60 A	40 A	25 A
Cont. Output Power at 25 °C	430 w	430 w	430 w	480 w	480 w	430 w	430 w	430 w
Cont. Output Power at 40 °C	360 w	360 w	360 w	400 w	400 w	360 w	380 w	380 w
Efficiency	87%	88%	88%	89%	89%	87%	89%	89%
Off Load Current	< 80 mA	< 100 mA	< 100 mA	< 80 mA	< 120 mA	< 80 mA	< 80 mA	< 80 mA
Galvanic Isolation	200 Vdc between input, output and case							
Operating Temperature Range	-20 °C to +55 °C (derate 3% per °C above 40 °C)							
Humidity	Max. 95% non-condensing							
Dc Connection	Screw terminals							
Maximum Cable Cross-Section	16 mm² AWG10							
Weight	12 V input and/or 12 V output models: 1.8 kg Other models: 1.6 kg							
Dimensions (h x w x d)	12 V input and/or 12 V output models: 130 x 186 x 80 mm) Other models: 130 x 186 x 70 mm							
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 R10-5							

(1) If set to nominal or lower than nominal, the output voltage will remain stable within the specified input voltage range (buck-boost function). If the output voltage is set higher than nominal by a certain percentage, the minimum input voltage at which the output voltage remains stable (does not decrease) increases by the same percentage.

These products may not be stock items. Please speak to our sales representative about lead times. Lead times, price, and availability can only be determined on receipt of an official quote from our supplier. This can sometimes take up to 3 days.

Gauteng - Jet Park (HQ): T: +27 (0)11 823 5650
Free State - Bloemfontein: T: +27 (0)63 257 0505
Eastern Cape - Port Elizabeth: T: +27 (0)81 036 9111
KwaZulu Natal - Pinetown: T: +27 (0)31 303 4129
Mpumalanga - Middelburg: T: +27 (0)13 692 8132
Northern Cape - Kathu: T: +27 (0)53 723 3415
Northern Cape - Springbok: T: +27 (0)60 570 8092
North West - Rustenburg: T: +27 (0)14 596 5257
Western Cape - Cape Town: T: +27 (0)21 945 1453
Botswana, Gaborone: T: +267 399 4150
Botswana, Jwaneng: T: +267 72 779 538
Botswana, Letlhakane: T: +267 297 8568
Mozambique, Tete: T: +258 252 20666
Zambia, Kitwe: T: +26 (0)21 222 5338

Follow us...

trading@trysome.cc • www.trysome.co.za • PO Box 13677, Witfield 1467