

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 220 - 280 watt	Orion-Tr 12/12 - 18 (220 w)	Orion-Tr 12/24 - 10 (240 w)	Orion-Tr 24/12 - 20 (240 w)	Orion-Tr 24/24 - 12 (280 w)	Orion-Tr 24/48 - 6 (280 w)	Orion-Tr 48/12 - 20 (240 w)	Orion-Tr 48/24 - 12 (280 w)	Orion-Tr 48/48 - 6 (280 w)
Part No.	TBA	T2810515600	TBA	TBA	TBA	TBA	TBA	TBA
Input Voltage Range ⁽¹⁾	8 - 17 V	8 - 17 V	16 - 35 V	16 - 35 V	16 - 35 V	32 - 70 V	32 - 70 V	32 - 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	18 A	10 A	20 A	12 A	6 A	20 A	12 A	6 A
Maximum Output Current (10 s) at Nominal Output Voltage	40 A	25 A	50 A	30 A	25 A	50 A	30 A	25 A
Short Circuit Output Current	32 A	23 A	39 A	30 A	19 A	27 A	25 A	17 A
Cont. Output Power at 25 °C	280 w	280 w	300 w	320 w	320 w	280 w	320 w	320 w
Cont. Output Power at 40 °C	220 w	240 w	240 w	280 w	280 w	240 w	280 w	280 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 mm ² AWG10							
Weight	1.3 kg							
Dimensions (h x w x d)	130 x 186 x 70 mm							
Standards: Safety	EN 60950							
Emission	EN 61000-6-3, EN 55014-1							
Immunity	EN 61000-6-2, EN 61000-6-1, EN 55014-2							
Automotive Directive	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 a 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)82 450 6596

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...



Call us today!

 AUTO-ELECTRICAL ENGINEERING

Delivering Optimal **Uptime!**