



Possibly the widest range on the market!

An ever-increasing amount of electric equipment is being used on vehicles and boats. Because most low-voltage equipment, such as navigation and radio equipment, mobile telephones or car hi-fi systems, is designed for 12 Volts, Snaptec Australia supplies DC/DC converters which deliver a stable 12 Volt supply from a 24 Volt system. These products are also distinguished by high efficiency, together with absolute safety. An inferior supply can cause irreparable damage to your 12 Volt system, but the use of an OR1 voltage converter prevents such problems.

Next to converters from 24 V to 12 V, a wide range of other models is available.

The OR1-24/12-20, 24/12-30 and 24/12-60 can also be used as a 12 V battery charger

The OR1- 24/12-20 and 24/12-30 can also be used as a 13.8 Volt battery charger for a 12 Volt starter or accessory battery in an otherwise 24 V system.

The OR1-12/27,6-12: a 24 V battery charger

To charge a 24 V battery from a 12 V system.

The output voltage of this model can be adjusted with a potentiometer

Non isolated converters	OR1-	24/12-5	24/12-8	24/12-12	24/12-20	24/12-30	24/12-60	12/24-7	12/24-10
Input voltage range (V)		18-35	18-35	20-35	20-35	20-35	20-35	9-18	9-18
Output voltage (V)		13,2	13,2	13,2	13,8	13,8	13,8	24	24
Max.output current (A)		5,5	8	12	20	30	60	7	10
Fan assisted cooling (temp. controlled)		no	no	no	no	yes	yes	no	no
Galvanic isolation		no	no	no	no	no	no	no	no
Off load current		< 5mA	< 5mA	< 5mA	appr.25mA	appr.25mA	appr.50mA	< 15mA	< 15mA
Temperature increase after 30 minutes at full load °C (°F)		30 (85)	20 (70)	30 (85)	25 (75)	33 (90)	33 (90)	30 (85)	30 (85)
Weight kg (lbs)		0,17 (0.37)	0,25 (0.55)	0,26 (0.57)	0,48 (1.1)	0,6 (1.3)	1,2 (2.6)	0,3 (0.7)	0,4 (0.9)
Dimensions hxxwd in mm (hxxwd in inches)		49x88x68 (1.9x3.5x2.7)	49x88x98 (1.9x3.5x3.9)	49x88x98 (1.9x3.5x3.9)	49x88x126 (1.9x3.5x5.0)	49x88x151 (1.9x3.5x6.0)	88x100x180 (3.5x4.0x7.0)	49x88x98 (1.9x3.5x3.9)	49x88x126 (1.9x3.5x5.0)

Note: two units OR1-24/12-60 can be connected in parallel to obtain a 120 A converter

Instructions for installation of the OR1 DC/DC converters:

The converter must be mounted securely in a cool, dry location. Connect the negative input leads to the minus terminal on the converter. Attention: A bad minus connection could make the output voltage equal to the input voltage! Then connect the input lead via a fuse to the input terminal. At this point make sure that the output voltage is OK. If it is, you may safely connect the equipment to the OUT terminal via a fuse. (Fuse value equal to the output current). Attention: The currents can be very high. Always use cables of sufficient diameter! If no input and output fuse are used then warranty is void.

