



# Statronics Power Supplies

Rifala Pty Ltd, ACN 002612473



ISO 9001

Units 5 & 6, 26 Leighton Place  
HORNSBY NSW 2077  
AUSTRALIA.  
E-Mail: [sales@statronics.com.au](mailto:sales@statronics.com.au)

Phone: 61 2 9477 5011  
Fax: 61 2 9476 6914  
Mobile: 61 4 1941 4392

Web-site: <http://www.statronics.com.au>



## NON-ISOLATED DC-DC CONVERTERS

### Features and performance

### **R241330 (30A) PICTURED**

- Cool
- Overload protected
- Input overvoltage protected
- Reverse input protected
- High reliability
- Very low noise
- Excellent regulation
- Remote control
- Soft Start
- No overshoot on output
- Reliable in hot, wet environment

- 90 to 93% efficient
- can be shorted indefinitely
- constant current limit
- load dumping causes no damage
- rated to 32V continuous, 40V surge
- over 40V blows input fuse
- no damage to reducer
- polarity reversal blows input fuse
- 5 year warranty
- suitable for radio equipment
- complies with AS3548, CISPR22 class B
- for sensitive electronic loads
- use as a reducing relay
- extends lamp life
- for sensitive electronic equipment
- continuously rated to 60°C, silicone sealed
- max. case temperature 80°C



Suitable for Radio Communications, Audio, Lighting, and Computer Equipment, Auxiliary Battery Systems, Refrigeration, Motors and Solenoids, Relays, etc.

# NON-ISOLATED DC-DC CONVERTERS

Input Voltage: 18-40Vdc		Output Voltage: 13.8Vdc $\pm$ 3%	
MODEL NUMBER	CONTINUOUS RATING	DIMENSIONS L x W x H [mm] L x W x H [inches]	WEIGHT (Grams Ounces)
R241310	10A	120 x 111 x 45 4.72 x 4.37x1.77	600g 21oz
R241315	15A	150 x 111 x 45 5.9 x 4.37x1.77	650g 23oz
R241320	20A	220 x 111 x 45 8.66 x 4.37x1.77	1100g 39oz
R241330	30A	300 x 111 x 45 11.8 x 4.37x1.77	1600g 56oz

## SPECIFICATIONS (ALL MODELS)

<b>Steady-state Input Current (18V input)</b>	83% of output current at full load
<b>Steady-state Input Current (27.6V input)</b>	54% of output current at full load
<b>Ripple And Noise:</b>	<100mV RMS, <250mV P-P
<b>Minimum Load (Fully Regulated):</b>	0 A. No minimum load is required
<b>Load Regulation:</b>	< 4% For all loads from 0 to full load
<b>Line Regulation:</b>	< 2% For all input voltages from 18-32 Vdc
<b>Temperature Coefficient:</b>	< 0.1% per °C after 1 Hr. Any change in output voltage due to warm-up drift and temperature is within regulation limit.
<b>Short Circuit protection:</b>	Short circuit placed on output causes no damage
<b>Over Current Protection:</b>	Quasi Constant Current limit
<b>Reverse Input Protection:</b>	Reversed Input Polarity Blows input fuse
<b>Maximum Case Temperature</b>	80°C recommended
<b>Operating Temperature:</b>	0°C to 60°C, Relative Humidity:10% to 95%
<b>Shipping and Storage:</b>	-30°C to 85°C , Relative Humidity: 5% to 95%
<b>Withstand Vibration :</b>	5.2 G Under operation
<b>Withstand Shock:</b>	28G Under operation
<b>Enclosure:</b>	Sealed to > IP65
<b>Standards, Safety:</b>	IEC 950, AS 3260, UL 1950, CSA22.2 No. 950,
<b>Standards, EMI:</b>	CISPR 22 Class B, AS 3548 Class B, FCC Class B, VDE 0871Class B
<b>Efficiency:</b>	> <b>90</b> % at full load, 18-32V input, Typically > <b>93</b> % at 24V in, full load.
<b>Step Load Response:</b>	0 to 70% step load change<1.5 V peak or dip, O/P Settling Time < 2.2ms