



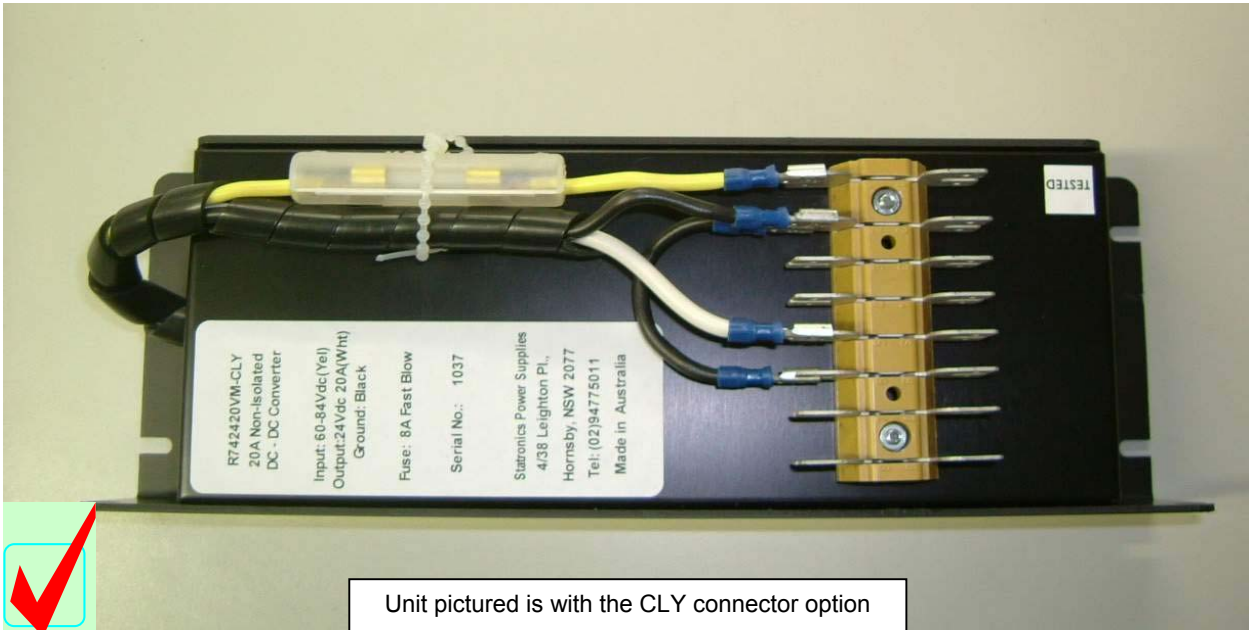
Statronics Power Supplies

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R72, R74 SERIES NON-ISOLATED DC-DC CONVERTERS



Features and performance

- 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 environment
- Over 93% efficient
- can be shorted indefinitely
- constant current limit
- rated to 84V continuous, 90V surge
- over 90V blows input fuse
- polarity reversal blows input fuse
- optional, input blocking diode
- 5 year warranty
- suitable for radio equipment
- comply with AS3548, CISPR22 class B
- for sensitive electronic loads
- on/off function
- extends lamp life
- for sensitive electronic equipment
- continuously rated to 60°C
- maximum case temperature 80°C

SPECIFICATIONS

MODEL:	R721320VM	R742420VM
DC Input Voltage	60-84 Vdc (Withstand surges to 90 Vdc)	
Steady-state Input Current:	3.5A typical, 6A maximum at full load	5.5A typical, 9A Maximum at full load
Output Voltage:	13.7V DC \pm 2%	24V DC \pm 2%
Output Current:	20A maximum, 15A continuous	20A maximum, 15A continuous
Ripple And Noise:	< 50mV p-p at full load, measured at the output connectors	
Minimum Load	0 A	
Line Regulation	\pm 1% for all load conditions	
Load Regulation	\pm 1% for all input voltages from 60-84 Vdc	
Temperature Coefficient	0.1% per °C after 1 Hr. Any change in output voltage due to warm-up drift and operation temperature does not exceed regulation limit	
Output Power	274 W	480 W
Efficiency	93 % typical at full load, 72V input	
Short Circuit:	short circuit placed on output (indefinite) causes no damage	
Over Current Protection	Current limit at approximately 110% of surge load rating	
No Load	No load operation causes no damage. No minimum load is required.	
Reverse Input Protection	Reversed input polarity blows input fuse or input blocking diode	
Operating Temperature	0°C to 60°C ambient. Maximum case temperature: 80°C	
Relative Humidity	0% to 98%	
Shipping and Storage	-30°C to 85°C, Relative Humidity: 5% to 95%	
Withstand Vibration	2.2G under operation	
Withstand Shock	20G under operation	
General	silicone encapsulated internally – water resistant	
Safety Standards	IEC 950, AS 3260, UL 1950, CSA 22.2 No. 950	
EMC Standards	AS 3548, FCC, VDE, AS3548, CISPR22, all class B	
Size (L x W x H)	244mm x 85mm x 45mm	
Weight:	1200 grams, 2.64 pounds	
Mechanical Protection	Fully sealed in silicone rubber, black anodized aluminium case.	
Grounding Normal	Case is isolated from common negative input and output.	
Grounding Option	Case connected to common negative input and output.	
Remote ON/OFF Function	Standard Open - ON. Option, short to negative input/output - OFF	
Mating Plug	Housing 9250-04L, crimp 9250T1 (Semico Australia)	

Adaptor Plate

For installation where the unit size must be similar to the old R72 or R74 Series units (300 x 111 x 44 mm) the converter can be supplied mounted on an adaptor plate. Specify if required.

CLY (Optional Connector)

For applications where this connector is required, simply add the suffix **CLY** to the part number eg. R742420VM-CLY

Voltage Options

The design is very versatile, the voltages can be customised to suit most applications. (Minimum MOQ's apply)

Vin	Vout (Examples)								
12	3.3	5	8						
24	3.3	5	12	15					
48			12	15	24	27			
70			12		24		48		
110			12		24		48	72	