



**MODEL 620**

**DC-DC BOOST CONVERTER**

**12V to 24V**

**Design Features**

- Low Input Voltage Cutout
- Compact design
- Convection Cooled
- Electronic Current Limiting
- Common Input/Output Negative Terminal
- Soft start technology

<b>SPECIFICATIONS</b>		
<b>INPUT</b>	<b>SYSTEM BATTERY VOLTAGE</b>	12 VDC
	<b>NOMINAL INPUT VOLTAGE</b>	12.75 VDC
	<b>INPUT VOLTAGE RANGE</b>	11 to 16 (+/- 0.5) VDC
	<b>INPUT CURRENT AT MAX CONTINUOUS POWER</b>	21.5 A
	<b>INPUT CURRENT AT NO LOAD</b>	0.21 A when converter is in "ON" state
	<b>INPUT CURRENT AT NO LOAD</b>	<0.002 A when converter is in "OFF" state
<b>OUTPUT</b>	<b>OUTPUT VOLTAGE</b>	<b>25.5 - 25.7 VDC (factory set, internally adjustable)</b>
	<b>OUTPUT VOLTAGE REGULATION</b>	< 60 mV, NL to Full Load
	<b>RATED MAX OUTPUT CURRENT</b>	<b>10 A</b>
	<b>OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)</b>	300 W
	<b>OUTPUT RIPPLE &amp; NOISE</b>	<50 mV RMS
	<b>EFFICIENCY AT MAX CURRENT</b>	92%
<b>PROTECTIONS</b>	<b>LOW INPUT VOLTAGE SHUTDOWN</b>	10.5 -10.8 VDC
	<b>HIGH INPUT VOLTAGE SHUTDOWN</b>	> 17.0 VDC
	<b>OVERLOAD CURRENT LIMITING</b>	Electronic knee type at power limit
	<b>OVER TEMPERATURE SHUTDOWN</b>	Yes (Auto reset)
	<b>INPUT REVERSE POLARITY PROTECTION</b>	Replaceable Input Fuse Externally Accesible
<b>CONNECTIONS</b>	<b>INPUT CONNECTION</b>	Screw Terminal Block, Magum 602-3
	<b>OUTPUT CONNECTION</b>	Screw Terminal Block, Magum 602-3
	<b>REMOTE CONTROL PORT</b>	No
<b>ENVIRONMENT</b>	<b>AMBIENT AIR OPERATING TEMPERATURE RANGE</b>	-40C to +40C no derating Derate 15% per 10C above 40C to a maximum of 60C
	<b>OPERATING HUMIDITY</b>	<95%, non condensing
	<b>ALTITUDE</b>	6000 meters
<b>MECHANICAL</b>	<b>DIMENSIONS, INCHES (L x W x H)</b>	7.8 x 6.9 x 3.6
	<b>MOUNTING CENTERS, INCHES (L x W x H)</b>	7.30 x 3.38
	<b>VIBRATION &amp; SHOCK RESISTANT</b>	Internally Encapsulated
	<b>WEIGHT (LB/KG)</b>	6.0 / 2.75

NOTE: Specifications are subject to change without notice.