



**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

SPECIFICATIONS		
INPUT	SYSTEM BATTERY VOLTAGE	12 VDC
	NOMINAL INPUT VOLTAGE	12.75 VDC
	INPUT VOLTAGE RANGE	11 to 16 (+/- 0.5) VDC
	INPUT CURRENT AT MAX CONTINUOUS POWER	21.5 A
	INPUT CURRENT AT NO LOAD	0.21 A when converter is in "ON" state
	INPUT CURRENT AT NO LOAD	<0.002 A when converter is in "OFF" state
OUTPUT	OUTPUT VOLTAGE	<b>25.5 - 25.7 VDC (factory set, internally adjustable)</b>
	OUTPUT VOLTAGE REGULATION	< 60 mV, NL to Full Load
	RATED MAX OUTPUT CURRENT	<b>10 A</b>
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	300 W
	OUTPUT RIPPLE & NOISE	<50 mV RMS
	EFFICIENCY AT MAX CURRENT (30A)	92%
PROTECTIONS	LOW INPUT VOLTAGE SHUTDOWN	10.5 -10.8 VDC
	HIGH INPUT VOLTAGE SHUTDOWN	> 17.0 VDC
	OVERLOAD CURRENT LIMITING	Electronic knee type at power limit
	OVER TEMPERATURE SHUTDOWN	Yes (Auto reset)
	INPUT REVERSE POLARITY PROTECTION	Replaceable Input Fuse Externally Accesible
CONNECTIONS	INPUT CONNECTION	Screw Terminal Block, Magum 602-3
	OUTPUT CONNECTION	Screw Terminal Block, Magum 602-3
	REMOTE CONTROL PORT	No
ENVIRONMENT	AMBIENT AIR OPERATING TEMPERATURE RANGE	-40C to +40C no derating Derate 15% per 10C above 40C to a maximum of 60C
	OPERATING HUMIDITY	<95%, non condensing
	ALTITUDE	6000 meters
MECHANICAL	DIMENSIONS, INCHES (L x W x H)	7.8 x 6.9 x 3.6
	MOUNTING CENTERS, INCHES (L x W x H)	7.30 x 3.38
	VIBRATION & SHOCK RESISTANT	Internally Encapsulated
	WEIGHT (LB/KG)	6.0 / 2.75

NOTE: Specifications are subject to change without notice.