

SEC AMERICA, LLC

1000W

MODEL 670

DC-DC BOOST CONVERTER

12V to 16V; 70A

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 14 (+/- 0.5) VDC
	INPUT CURRENT AT MAX CONTINUOUS POWER	95 A
	INPUT CURRENT AT NO LOAD	0.28 A when converter is in "ON" state <0.002 A when converter is in "OFF" state
OUTPUT	OUTPUT VOLTAGE	15.5-15.7 VDC (factory set, internally adjustable)
	OUTPUT VOLTAGE REGULATION	< 60 mV, NL to Full Load
	RATED MAX OUTPUT CURRENT	70 A
	MAXIMUM 10 MSEC PULSED CURRENT	200 A
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	1000 W
	OUTPUT RIPPLE & NOISE	<50 mV RMS
PROTECTIONS	EFFICIENCY AT MAX CURRENT (10A)	92%
	LOW INPUT VOLTAGE SHUTDOWN	factory set at 10.5V
	HIGH INPUT VOLTAGE SHUTDOWN	> 17.0 VDC
	OVERLOAD CURRENT LIMITING	Electronic knee type at power limit
	COOLING	By convection and thermostat controlled fan
CONNECTIONS	OVER TEMPERATURE SHUTDOWN	Yes (Auto reset)
	INPUT REVERSE POLARITY PROTECTION	Circuit Breaker
	INPUT CONNECTION	DIN Terminal Block
	OUTPUT CONNECTION	DIN Terminal Block
ENVIRONMENT	REMOTE CONTROL PORT	YES
	When deactivated by the remote control port, the input voltage remains connected through a diode drop to the output terminal	
	AMBIENT AIR OPERATING TEMPERATURE RANGE	-40C to +40C no derating Derate 15% per 10C above 40C to a maximum of 60C
MECHANICAL	OPERATING HUMIDITY	<95%, non condensing
	ALTITUDE	3000 meters
	DIMENSIONS, INCHES (L x W x H)	13.2 x 4.2 x 3.75
	MOUNTING CENTERS, INCHES	12.75 x 3.0
	WEIGHT (LB/KG)	6.0 / 2.5

NOTE: Specifications are subject to change without notice.