

# SEC AMERICA CORP



## MODEL 615C

DC-DC BOOST CONVERTER

5-15 V to 13.8V

### Design Features

- Operates During Cold Engine Cranking
- Protected Against Load Dump
- Meets ISO 16750-2
- Low Input Voltage Cutout
- Convection Cooled
- Soft-start Technology
- 20A Maximum Output

### SPECIFICATIONS

INPUT	SYSTEM BATTERY VOLTAGE	12 VDC
	NOMINAL INPUT VOLTAGE	12.75 VDC
	INPUT VOLTAGE RANGE	5 to 15 (+/- 0.5) VDC
	OUTPUT CURRENT MAX. AT 5V INPUT	10A
	OUTPUT CURRENT MAX. AT 10V-15V INPUT	20A
	INPUT CURRENT AT NO LOAD	0.11A
OUTPUT	OUTPUT VOLTAGE	<b>13.75-13.85 VDC (factory set)</b>
	OUTPUT VOLTAGE REGULATION	< 60 mV, NL to Full Load
	RATED MAX OUTPUT CURRENT	<b>20 A</b>
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	275 W
	OUTPUT RIPPLE & NOISE	<50 mV RMS
	EFFICIENCY AT MAX CURRENT	92%
PROTECTIONS	LOW INPUT VOLTAGE SHUTDOWN	2.0 VDC
	HIGH INPUT VOLTAGE SHUTDOWN	> 17.0 VDC
	OVERLOAD CURRENT LIMITING	Electronic knee type at power limit of 300W
	OVER TEMPERATURE SHUTDOWN	Yes (Auto reset)
	INPUT REVERSE POLARITY PROTECTION	Circuit Breaker/ON-OFF Switch
CONNECTIONS	INPUT CONNECTION	Hard Wired
	OUTPUT CONNECTION	Hard Wired
	REMOTE CONTROL PORT	No
ISOLATION	INPUT & OUTPUT GROUNDS ARE COMMON	Yes
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)	8.8 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 /2.7

NOTE: Specifications are subject to change without notice.