

## 1000W

### MODEL 680CE

DC-DC BOOST CONVERTER

12V to 24V; 40A



#### 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	89 A
	INPUT CURRENT AT NO LOAD	0.28 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>26.3-26.5 VDC (factory set, internally adjustable)</b>
	OUTPUT VOLTAGE REGULATION	< 60 mV, NL to Full Load
	RATED MAX OUTPUT CURRENT	<b>40 A</b>
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	1000 W
	OUTPUT RIPPLE & NOISE	<50 mV RMS
	EFFICIENCY AT MAX CURRENT	90% with output set to 24V
PROTECTIONS	LOW INPUT VOLTAGE SHUTDOWN	factory set at 10.5V, internally adj. from 10.5 - 13.0 VDC cutout hysteresis is 1.2VDC@13.0VDC / 0.9VDC@10.5 VDC
	HIGH INPUT VOLTAGE SHUTDOWN	> 17.0 VDC
	OVERLOAD CURRENT LIMITING	Electronic knee type at power limit
	COOLING	By convection and thermostat controlled fan
	OVER TEMPERATURE SHUTDOWN	Yes (Auto reset)
	INPUT REVERSE POLARITY PROTECTION	Circuit Breaker
CONNECTIONS	INPUT CONNECTION	DIN Terminal Block
	OUTPUT CONNECTION	DIN Terminal Block
	REMOTE CONTROL PORT	YES
	When deactivated by the remote control port, the input voltage remains connected through a diode drop to the output terminal	
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)	13.8 x 6.9 x 3.6
	MOUNTING CENTERS, INCHES	13.30 x 3.93
	VIBRATION & SHOCK RESISTANCE	Internally Encapsulated
	WEIGHT (LB/KG)	12.0 / 5.5

NOTE: Specifications are subject to change without notice.