

SEC AMERICA, LLC

1400W

MODEL 7048

DC-DC BOOST CONVERTER

24V to 48V; 35A



Design Features

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

SPECIFICATIONS

SPECIFICATIONS		
INPUT	SYSTEM BATTERY VOLTAGE	24 VDC
	NOMINAL INPUT VOLTAGE	26.5 VDC
	INPUT VOLTAGE RANGE	21 to 30 (+/- 0.5) VDC
	INPUT CURRENT AT MAX CONTINUOUS POWER	71 A
	INPUT CURRENT AT NO LOAD	0.36 A when converter is in "ON" state
	INPUT CURRENT AT NO LOAD	<0.002 A when converter is in "OFF" state
OUTPUT	OUTPUT VOLTAGE	48.3-48.7 (factory set, internally adjustable)
	OUTPUT VOLTAGE REGULATION	< 60 mV, NL to Full Load
	RATED MAX OUTPUT CURRENT	35A @ 40C, 25A @ 60C
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	1400 W
	OUTPUT RIPPLE & NOISE	<50 mV RMS
	EFFICIENCY AT MAX CURRENT	92%
PROTECTIONS	LOW INPUT VOLTAGE SHUTDOWN	factory set at 21.0V, internally adj. cutout hysteresis is 2.5V@21.0 V cutout
	HIGH INPUT VOLTAGE SHUTDOWN	> 34.0 VDC
	OVERLOAD CURRENT LIMITING	Electronic knee type at power limit
	OVER TEMPERATURE SHUTDOWN	Auto reset
	INPUT REVERSE POLARITY PROTECTION	Circuit Breaker
CONNECTIONS	INPUT CONNECTION	DIN Terminal Block
	OUTPUT CONNECTION	DIN Terminal Block
	REMOTE CONTROL PORT	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)	17.8 x 6.9 x 3.6
	MOUNTING CENTERS, INCHES	17.30 x 3.93
	VIBRATION & SHOCK RESISTANT	Internally Encapsulated
	WEIGHT (LB/KG)	18.0 / 8.5

NOTE: Specifications are subject to change without notice.