



MODEL 648-8TB

DC-DC BOOST CONVERTER

12V to 48V; 8A

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	33 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	48.3 - 48.5 VDC (factory set, internally adjustable)
	OUTPUT VOLTAGE REGULATION	< 60 mV, NL to Full Load
	RATED MAX OUTPUT CURRENT	8 A
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	400 W
	OUTPUT RIPPLE & NOISE	<50 mV RMS
	EFFICIENCY AT MAX CURRENT (10A)	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	Circuit Breaker/ON-OFF Switch
CONNECTIONS	INPUT CONNECTION	DIN Terminal Block
	OUTPUT CONNECTION	DIN Terminal Block
	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)	7.0 / 3.25

NOTE: Specifications are subject to change without notice.