

**SEC AMERICA CORP.**



**48 to 12 VDC Isolated Converter  
Model 848 HSBP  
Step-Down Sealed DC-DC Converter**

**Design Features**

- Wide Range Input Voltage
- High Efficiency Design
- Hi Ingress Rating, IP 67
- Adjustable Output Voltage
- Optional Remote Output Voltage Sensing
- Optional Remote On/Off switching
- Low/High Input Voltage Cutouts
- Electronically Current Limited
- Thermally Protected
- Low No Load Power Consumption
- I/O Bayonet Quick Connection

MODEL NO.		848 HSBP
INPUT	NOMINAL OPERATING INPUT VOLTAGE RANGE	44 to 70 VDC
	MAXIMUM INPUT VOLTAGE	75 VDC
	INPUT CURRENT WITH LOAD AT 60A; 13.0 Vout	19A with input at 48.0 V
	INPUT INRUSH CURRENT AT FULL LOAD	Limited to 25A
	INPUT CURRENT AT NO LOAD	< 250 mA over entire input and output voltage ranges
OUTPUT	OUTPUT VOLTAGE NOMINAL	13.0 +/- 0.1 VDC (factory adjusted)
	OUTPUT VOLTAGE ADJUSTMENT RANGE	11.8 to 14.5 VDC (internally accessible to user)
	OUTPUT LOAD REGULATION	200 mV (without remote sensing) <30 mV (with remote sensing)
	OUTPUT VOLTAGE REGULATION	< 0.2% with input excursions from 46-65 VDC
	OUTPUT RIPPLE	50 mV RMS at maximum load (measured at 25C)
	MAXIMUM CONTINUOUS OUTPUT POWER	850 W
	POWER SURGE	1000 W
	MAXIMUM LOAD CURRENT	60 ADC, for output voltage setting 11.7-13.2 VDC
	EFFICIENCY	Not less than 94% over entire operating range
PROTECTION	LOW INPUT VOLTAGE SHUTDOWN	40V +/- 1V
	HIGH INPUT VOLTAGE SHUTDOWN	71V +/- 1V
	OVERLOAD SHUTDOWN	Knee current limit starting at 110% of maximum current
	ISOLATION	Input/Output-1800V, Input/Housing-2500V
	OVER TEMPERATURE SHUTDOWN	Via internal thermostat, self resetting
	COOLING	By conduction through base plate and convection
	FUSING	Customer accessible by front panel removal
CONNECTIONS	INPUT/ OUTPUT CONNECTION	Via 9 pin Bayonet connector (see owner's manual)
	REMOTE TURN ON	Via pin H jumpered to -ve Pin I on input connector, may be disabled via internal jumper
	REMOTE SENSE	Via 2 pins on the output connector usage is optional (see user manual)
GENERAL	OPERATING TEMPERATURE RANGE	-40C to 70C, 100% loading
	OPERATING HUMIDITY	100% non condensing
	INGRESS RATING	IP 67
	MOUNTING SLOT CENTERS (in./cm.)	10.0 x 7.3 / 25.4 x 18.5
	DIMENSIONS, (in./cm.) (L x W x H)	15.5 x 8.0 x 2.9 / 39.4 x 20.3 x 7.4
	HOUSING MATERIAL	All Aluminum
	WEIGHT, (lb./kg.)	15 / 6.8

NOTE: Specifications are subject to change without notice.

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