



**48 to 48 VDC Isolated Converter  
Model 850HS  
Regulated Sealed DC-DC Converter**

**Design Features**

- Wide Range Input Voltage
- High Efficiency Isolated Design - 94%
- 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.	850HS
INPUT	NOMINAL INPUT VOLTAGE RANGE	46 to 56 VDC	
	MAXIMUM INPUT VOLTAGE RANGE	40 to 61 VDC	
	INPUT CURRENT WITH LOAD AT 18A; 48.0 Vout	19.1 A with input at 48.0 V	
	INPUT CURRENT AT NO LOAD	< 160 mA over entire input and output ranges	
OUTPUT	OUTPUT VOLTAGE NOMINAL	48.0 +/- 0.1 VDC (factory adjusted)	
	OUTPUT VOLTAGE ADJUSTMENT RANGE	46.0 to 54.0 VDC (internally accessible to user)	
	OUTPUT LOAD REGULATION	200 mV (without remote sensing)	
		<30 mV (with remote sensing 5%-100% Load)	
	OUTPUT VOLTAGE REGULATION	< 0.2% with input excursions from 46-56 VDC	
	OUTPUT RIPPLE	50 mV RMS at maximum load (measured at 25C)	
	MAXIMUM CONTINUOUS OUTPUT POWER	864 W	
	POWER SURGE	1000 W	
MAXIMUM LOAD CURRENT	18 ADC, for output voltage setting 46.0-54.0 VDC		
	EFFICIENCY	Not less than 94% over entire operating range	
PROTECTION	LOW INPUT VOLTAGE SHUTDOWN	40V +/- 1V	
	HIGH INPUT VOLTAGE SHUTDOWN	60V +/- 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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