SEC AMERICA, LLC



450W

DC-DC Converter HS Sealed Series

Model 649 HS

Design Features

- Wide Range Input Voltage
- High Efficiency Design
- Hi Ingress Rating, IP 676
- Adjustable Output Voltage
- Optional Remote Output Voltage Sensing
- Optional Remote On/Off switching
- Low Voltage cutout
- High Voltage cutout
- Electronically Current Limited
- Thermally Protected
- Low No Load Power Consumption
- I/O Bayonet Quick Connection

	MODEL NO.	649 HS
	NOMINAL INPUT VOLTAGE RANGE	12 VDC to 28 VDC
INPUT	MAXIMUM INPUT VOLTAGE RANGE	10.5 to 32.0 (+,- 0.5) VDC
INPUI	INPUT CURRENT AT 8A OUTPUT CURRENT	36A @ 11.5 Vin; 48.1 Vout
	INPUT CURRENT AT NO LOAD	<180 mA over entire input & output voltage ranges
	OUTPUT VOLTAGE NOMINAL	48.0 VDC (factory adjusted)
	OUTPUT VOLTAGE ADJUSTMENT RANGE	42.0 VDC to 55.0 VDC (internally accessible to user)
	OUTPUT LOAD REGULATION	250 mV (without remote sensing) 50 mV (with remote sensing)
OUTPUT	OUTPUT VOLTAGE REGULATION	< 0.2%
	OUTPUT RIPPLE	50 mV RMS at maximum load (measured at 25C)
	MAXIMUM CONTINUOUS OUTPUT POWER	450 W
	POWER SURGE	550 W
	MAXIMUM LOAD CURRENT	8 ADC, for output voltage setting 42.0 VDC - 55.0 VDC
	WORST CASE EFFICIENCY	94.0% @ 50% max. power, 92.0% @ max. power
	LOW INPUT VOLTAGE SHUTDOWN	< 10.5 +/-0.3 VDC
	HIGH INPUT VOLTAGE SHUTDOWN	> 32.0 +/- 1.0 VDC
PROTECTION	OVERLOAD SHUTDOWN	Set to shut off at 110% of maximum current with continuous automatic retry
	OVER TEMPERATURE SHUTDOWN	Via internal thermostat, self resetting
	COOLING	By Conduction through base plate and convection
	FUSING	Customer accessible
	INPUT/ OUTPUT CONNECTION	Via 9 pin Bayonet connector
CONNECTIONS	REMOTE TURN ON	Via pin to -ve on input connector,
CONNECTIONS	REMOTE TORN ON	may be disabled via internal jumper
	REMOTE SENSE	Via 2 pins on the output connector
		usage is optional
	OPERATING TEMPERATURE RANGE	-40C to 70C, 100% loading
	OPERATING HUMIDITY	100%
GENERAL	INGRESS RATING	IP 676
GENERAL	MOUNTING SLOT CENTERS (in./cm.)	6.0 x 7.3 / 15.2 x 18.5 9.5 x 8.0 x 2.9 / 24.1 x 20.3 x 7.4
	DIMENSIONS, (in./cm.) (L x W x H) Housing Material	9.5 X 8.0 X 2.9 / 24.1 X 20.3 X 7.4 All Aluminum
	110001110 1111111	10 / 4.5
	WEIGHT, (lb./kg.)	10 / 4.3

NOTE: Specifications are subject to change without notice.

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