3000 Watts
HPS3KW

Total Power:	**3000 Watts**
Input Voltage:	**180-264 VAC**
# of Outputs:	**Single**



Special Features - *Module only

- Active Power Factor Correction
- EN61000-3-2 Harmonic Compliance
- Remote INHIBIT
- Single Wire Parallel
- Built-in EMI Filter
- Low Output Ripple
- +5V standby Output
- Built-in Cooling Fans
- Over Current Protection
- Over Voltage Protection
- Over Temperature Protection
- Hot Swap
- Built-in OR'ing Diodes

Environmental - *Module only

Operating Temperature: +5°C to 40°C

Non-Operating Temperature: -40° to +70°C

Electromagnetic Susceptibility: Designed to meet EN61000-4-2, -4-3, 4-4, -4-5 Level 3

Humidity: 5 to 95% RH, non-condensing

Operating: Sinusoidal Vibration - 0.25G zero to peak, 10 to 500Hz, 0.25 oct/min in each three mutually perpendicular axes. Random vibration - 0.002 G2/Hz, 10 to 500Hz, nominal 1G rms.

Non-operating: Sinusoidal Vibration - 0.75G zero to peak, 10 to 500Hz, 0.50 oct/min in each three mutually perpendicular axes. Random vibration - 0.008 G2/Hz, 10 to 500Hz, nominal 2G rms.

MTBF (demonstrated): >500KHrs at full load, 40°C

Electrical Specs - *Module only

Input

Input Range	180-264VAC
Frequency	47 - 63 Hz
Inrush Current	100A (peak)
Efficiency	85% typical at full load
EMI Filter	CISPR22 Class A
Power Factor	0.98 typical
Leakage Current	1.16 mA @ 240 VAC

Output

DC Voltage	51.4V @ 57A*
	5Vsb @ 5A
Adjustment Range	± 5%
Supervisory Output	5V @ 5A
Hold Up Time	20ms
Over Current	51.4V: 110% - 150%
	5Vsb: 101% - 125%
Over Voltage	60V Max

Logic Control

ENABLE	Requires contact closure from "PSON" to 5Vsb return.
AC OK	TTL signal LOW
POWER FAIL	TTL signal LOW; goes HIGH inthe event of failure
POWER GOOD	TTL logic signal goes high 100-1000 msec after 48VDC output. It goes LOW at least 1ms before loss of regulation.

*10% Minimum load required.

Safety - *Module only

UL 60950 (UL Recognized)
NEMKO EN60950
TUV EN60950
CE Mark

Americas: 1-888-41-ASTEC Europe (UK): 44 (1384) 842-211 Asia (HK): 852-2437-9662
ASTEC rev 08.29.05

HPS3KW Module

AMERICAS

5810 Van Allen Way
Carlsbad, CA 92008
Telephone: 760-930-4600
Facsimile: 760-930-0698

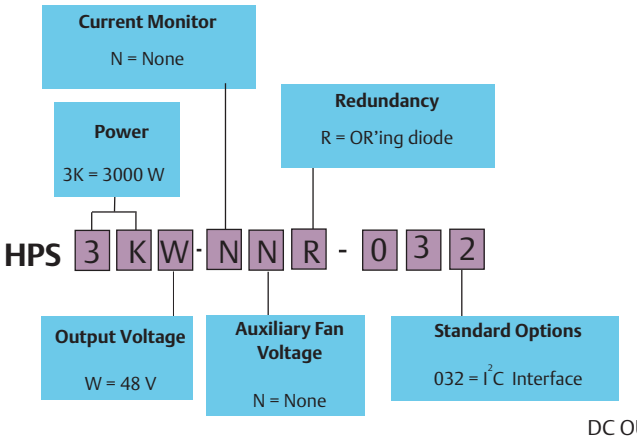
EUROPE

Astec House, Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX, UK
Telephone: 44 (1384) 842-211
Facsimile: 44 (1384) 843-355

ASIA

Units 2111-2116, Level 21
Tower1, Metroplaza
223, Hing Fong Road
Kwai Fong, New Territories
Hong Kong
Telephone: 852-2437-9662
Facsimile: 852-2402-4426

Ordering Information



DC Output Connector Pinout Assignment

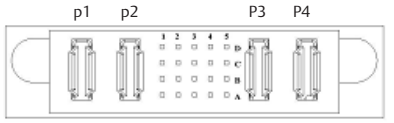
Signal Pins

	1	2	3	4	5
D	5Vsb	5Vsb rtn	PSON	SCL	A0
C	5Vsb	5Vsb rtn	PRESENT	SCL/SDA RTN	A1
B	5Vsb	5Vsb rtn	PSKI LL	SDA	A2
A	48LS	AC OK	PWOK	FAIL	Reserved

Power Blades

P1, P2	P3, P4
48VDC RETURN	48VDC

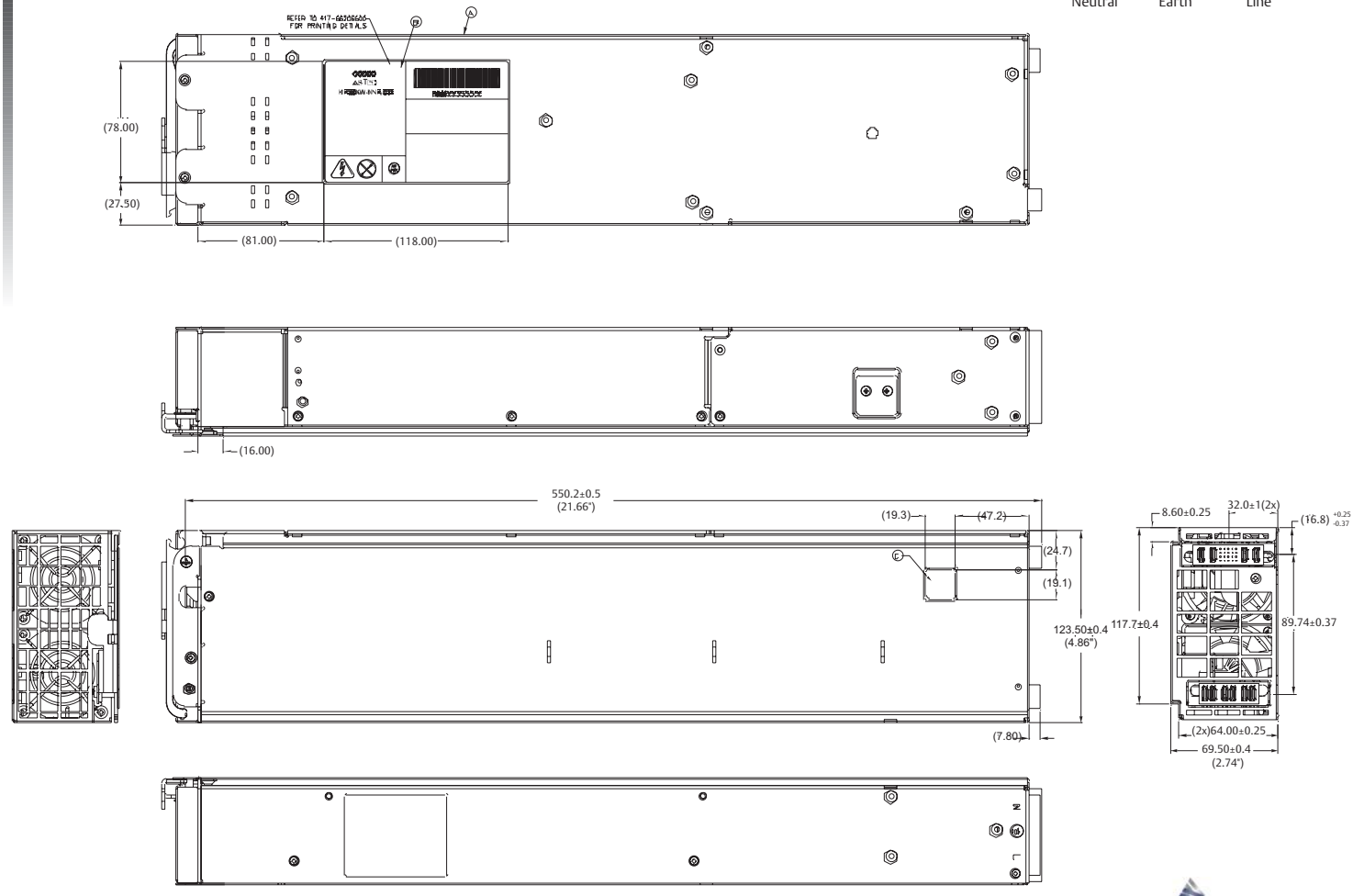
DC OUTPUT CONNECTOR: FCI 51874-001
DC OUTPUT MATING CONNECTOR: FCI 51875-001



AC INPUT CONNECTOR: FCI 51870-001
AC MATING CONNECTOR: FCI 51871-001
(REQUIRES 2 FCI 51869-001 BACKSHELL)



Mechanical Drawings



HPS3KW Rack

Ordering Information

- Hot Swap
- Can accommodate up to 18KW of bulk power
- Easy AC input connect
- Easy DC output connect



