

3000 Watts

HPS3KW



Special Features - *Module only

- Active Power Factor Correction
- EN61000-3-2 Harmonic Compliance
- 48VDC output
- 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
(50% power derating at 70°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

Total Power: 3000-18000 Watts
Input Voltage: 180-264 VAC
of Outputs: Single

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	48V @ 57A 5Vsb @ 5A
Maximum Power	3000W
Adjustment Range	+ 5%
Supervisory Output	5V @ 5A
Hold Up Time	20ms
Over Current	48V: 110% - 150% 5Vsb: 101% - 125%
Over Voltage	125% above nominal output

Logic Control

ENABLE	Requires contact closure from "PSON" to 5Vsb return.
AC OK	TTL signal LOW
POWER FAIL	TTL signal LOW; goes HIGH in the 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.

Safety - *Module only

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

* Astec Part Number for Module = AA21970-288

AMERICAS

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EUROPE

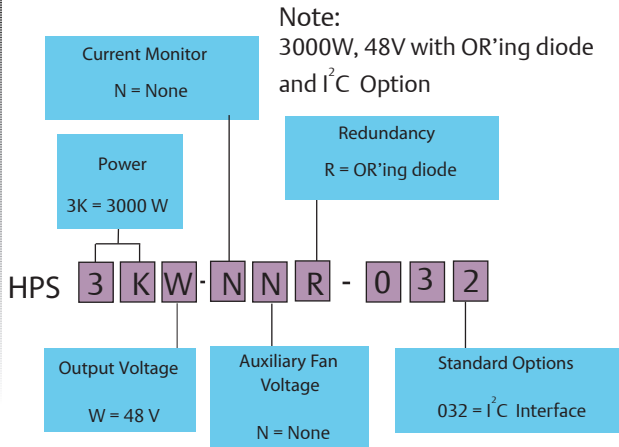
Astec House, Waterfront Business Park
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ASIA

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Ordering Information

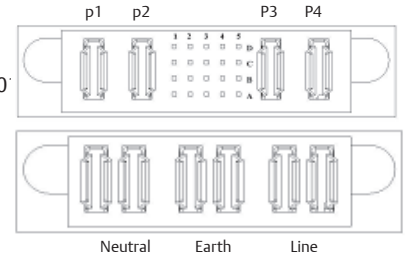


DC Output Connector Pinout Assignment

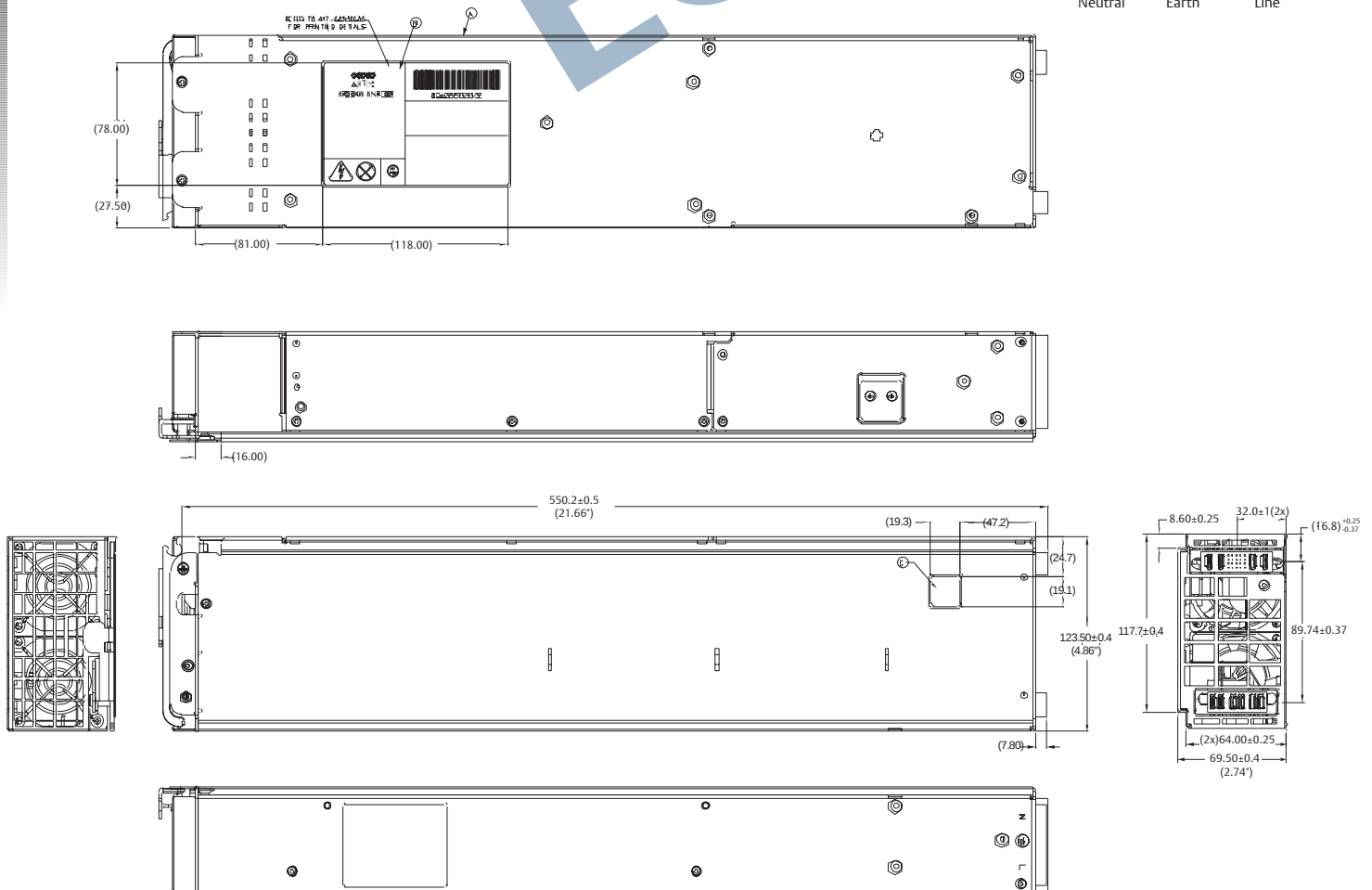
Signal Pins					
	1	2	3	4	5
D	5Vsb	5Vsb rtn	PSON	SCL	A0
C	5Vsb	5Vsb rtn	PRESENT	SCL/SDA RTN	A1
B	5Vsb	5Vsb rtn	PSKI	SDA	A2
A	5Vsb	5Vsb rtn	PWOK	FAIL	A3
Power Blades					
P1, P2			P3, P4		
48VDC RETURN			48VDC		

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

CONTINUED

Rack Chassis

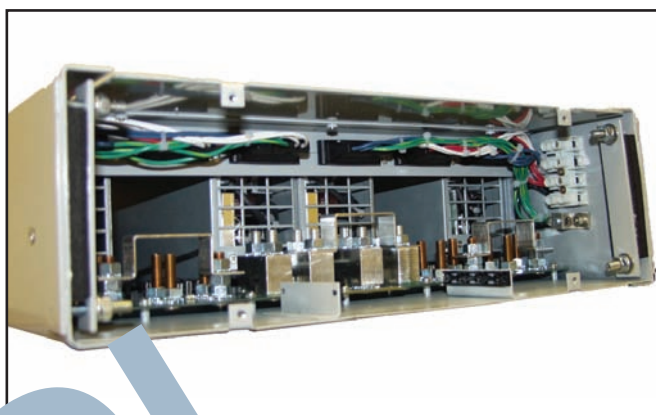
- Hot Swap
- Can accommodate up to 18KW of bulk power
- 48VDC output
- Easy AC input connect
- Easy DC output connect



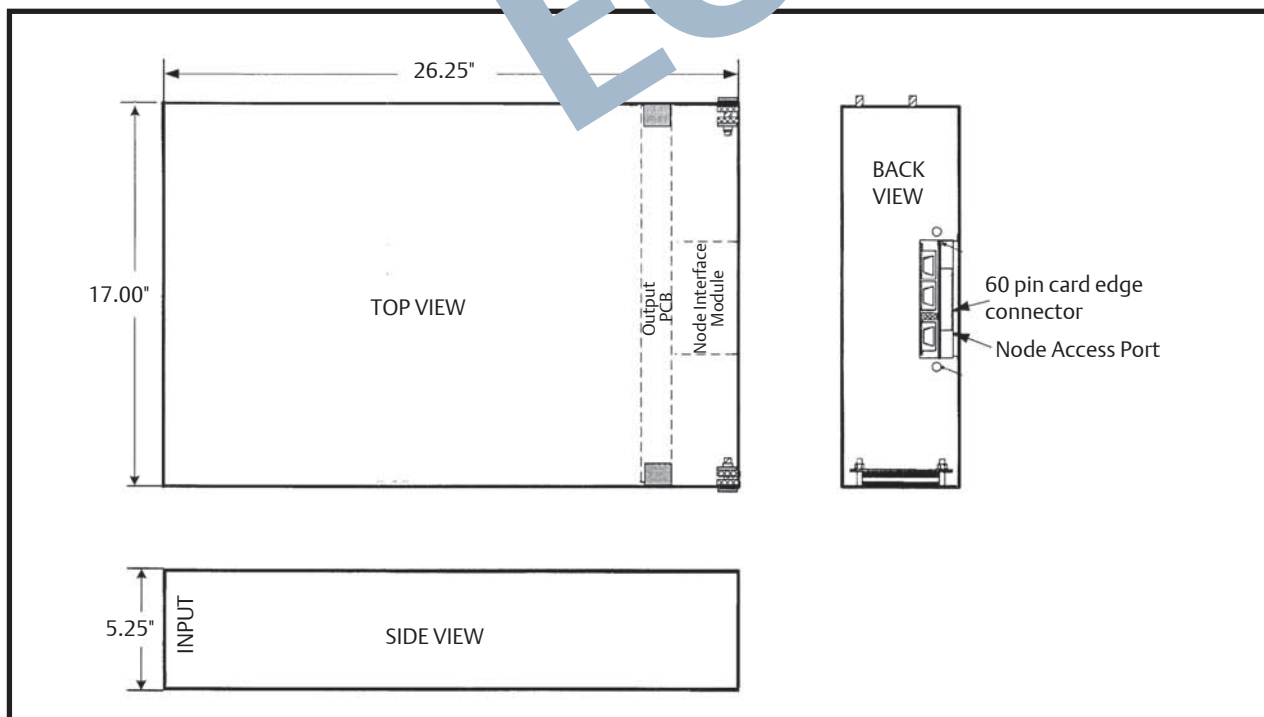
Back View

Safety Approvals

Pending



Inside View



Mouser Electronics

Authorized Distributor

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[Artesyn Embedded Technologies:](#)

[HPS3KW-NNR-032](#)