AC/DC Front End

800 Watts ZC8 Series



Specification -

Input

AC Input Voltage
Input Frequency
Power Factor
Inrush Current
Input Protection

Output

Output Voltage	•
Output Power	•
Output Voltage Adjustment	•
Minimum Load	•
Line/Load Regulation	•
Ripple & Noise	•
Transient Response	•
Temperature Coefficient	•
Hold Up Time	•
Remote Sense	•
Overvoltage	•

Remote Sense Overvoltage Protection Overcurrent Protection Overtemperature Protection Current Sharing

•	85-264 VAC
•	47-63 Hz
•	0.99
•	Limited to 30 A peak
•	Internal 20 A fuse

- 12, 24 or 48 VDC with 5 VSB at 250 mA
- 650-800 W
- ±5% min
- No minimum load for all outputs ±2%
- 1% pk-pk maximum
- 4% max deviation, 300 μs recovery time for a 25% load change
- 20 ms minimum

0.02%/°C

- Up to 0.25 V compensation
- Latched shutdown, recycle input to reset
- Standard with auto recovery
- Logic high signal for overtemp conditions
- ±10%

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General Efficiency

MTBF • Isolation Voltage • Signals • LED Indicators • Size • Weight •

Environmental

• • • • • • • • • • • • • • • • • • •	0°C to +70 C, full power to +50 °C derate from +50 °C to 70 °C at 2.5%/°C
Cooling •	Internal ball bearing fans
Humidity •	<95% RH, non-condensing
Storage Temperature •	-40 °C to +85 °C
EMC & Safaty	

EMC & Safety

Safety Approvals	•	UL1
		EN6
EMC	•	EN6
		2078
Immunity & Surge	•	Mee



- EN61000-3-2, -3, EN55022 and FCC 20780 part 15J Class B conducted
- Meets EN61000-4-4, -5



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XPIQ inc.

Hot Swap or Chassis Mount Front End Switcher

Optional 3 Bay / 1U High Rack for Hot-Swap 2+1 Redundant Operation

Active PFC - Meets EN61000-3-2, -3

World Wide Safety Approvals & CE Mark

OR'ing Diodes Standard on all Models

Single Wire Current Share

75-85% typical at full load

3000 VAC Input to Output 1500 VAC Input to Ground

500 VAC Output to Ground

DC OK = Logic Low

AC Fail = Logic High Global Inhibit = Logic Low

Enable = Logic Low

Overtemp = Logic Hi

2 status indicators

5.0" x 10.0" x 1.6"

2.9 lbs. (1.3 kgs.)

200,000 hrs per Bellcore

OUTPUT VOLTAGE	ZC			
Package	Maximum	Output	Maximum	Model
Style	Power	Voltage	Amps	Number
-	650 W	12.0 V	54.2 A	ZCA8HPS12
Hot Swap	700 W	24.0 V	29.2 A	ZCA8HPS24
	800 W	48.0 V	16.7 A	ZCA8HPS48
	650 W	12.0 V	54.2 A	ZCA8CPS12
Chassis Mount	700 W	24.0 V	29.2 A	ZCA8CPS24
	800 W	48.0 V	16.7 A	ZCA8CPS48
Hot Swap with Front Panel	480 W	12.0 V	40.0 A	ZCA8HPS12C
IEC-320 Inlet with Switch	525 W	24.0 V	21.9 A	ZCA8HPS24C
	600 W	48.0 V	12.5 A	ZCA8HPS48C
Chassis Mount with Front	480 W	12.0 V	40.0 A	ZCA8CPS12C
Panel IEC-320 Inlet	525 W	24.0 V	21.9 A	ZCA8CPS24C
with Switch	600 W	48.0 V	12.5 A	ZCA8CPS48C

Notes

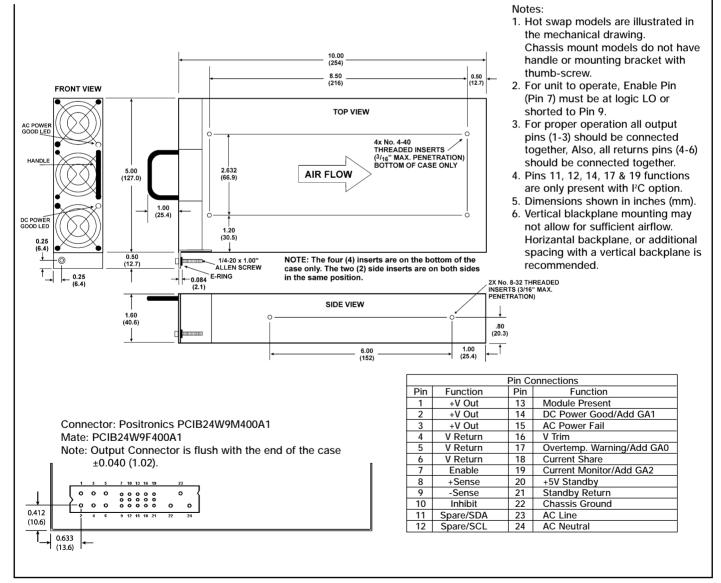
1 Part numbers in bold type are standard stock models, all others including options below are build to order.

2. Standard airflow is front to rear. For optional reverse airflow add suffix R to the part number. Derate rear input models 20%, front panel IEC-320 inlet models 16.6%.

3. Optional I²C function by adding the suffix I to the part number.

4. Optional reverse airflow and I²C function by adding the suffix M to the part number. Derate rear connector models 20%, front panel IEC-320 inlet models 16.6%.

Mechanical Details - Power Supply





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STANDARD RACK MODELS	
Package Style	Model Number
3 Modules with Rear Panel IEC-320 Inlets (for all ZCA8HPSXX Hot Swappable Supplies)	ZCA-1U3R-R
3 Modules with Front Panel IEC-320 Inlets (for all ZCA8HPSXXC Hot Swappable Supplies Modules with Front Panel IEC-320 Inlets)	ZCA-1U3R-C

Notes

1 All output connections are made to the rear of both racks. AC input is via IEC603020 connectors either at the rear of the rack (J1 goes to module A, connector J2 to module B and connector J3 to module C) or the front of each individual module.

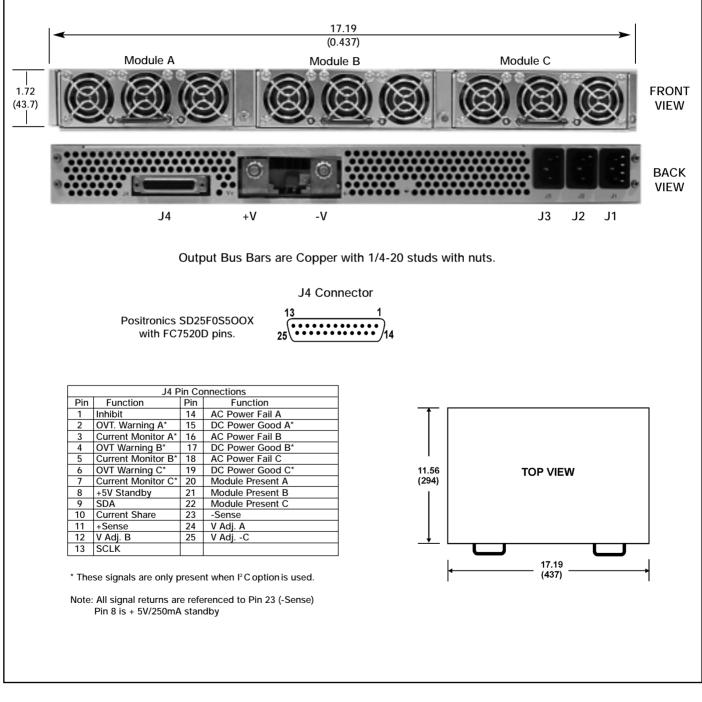
2. The output of all modules are connected in parallel in the rack.

3. The input voltage range is 85-264 for maximum power in either redundant or non-redundant operation.

4. The Module Present outputs (J4 pins 20, 21 and 22) are grounded (to -Sense) when the module is plugged in and open when the module is out.

5. Optional I² C modules require the following part numbers and are build to order: ZCA-1U3R-I for rear panel IEC input, or ZCA1U3R-CI for front panel IEC

Mechanical Details for ZCA-1U3R-R



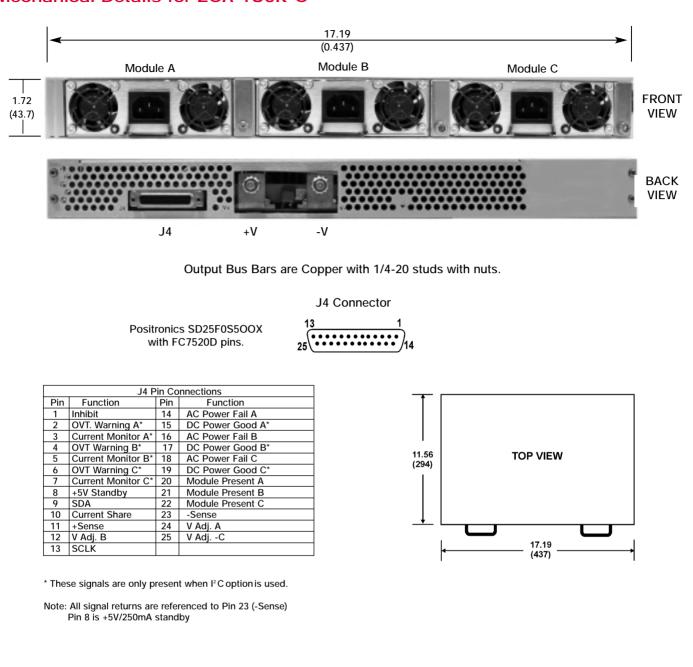


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Mechanical Details for ZCA-1U3R-C

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See XPiQ website for detailed specifications and application notes.



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