

# ENS-0748A-FC



## Apply For

- 2U Rack Mount Server



## Features



EPS2U

## Electrical Specifications

- Input Voltage 115 ~ 230 VAC  
Auto Sensing
- Frequency 47 ~ 63 Hz
- Input current 7.0 Arms @ 115 VAC  
4.0 Arms @ 230 VAC
- Holdup Time > 16 ms @ Full Load

## Environmental Specifications

- Operating/Storage Temp. 10~50°C/-20~60°C
- Operating/Storage Humidity 85% / 95%
- Operating/Storage Altitude 10,000/50,000 FT
- MTBF 100,000 HRS
- Safety Approvals Pending
- EMC Regulations FCC, CE

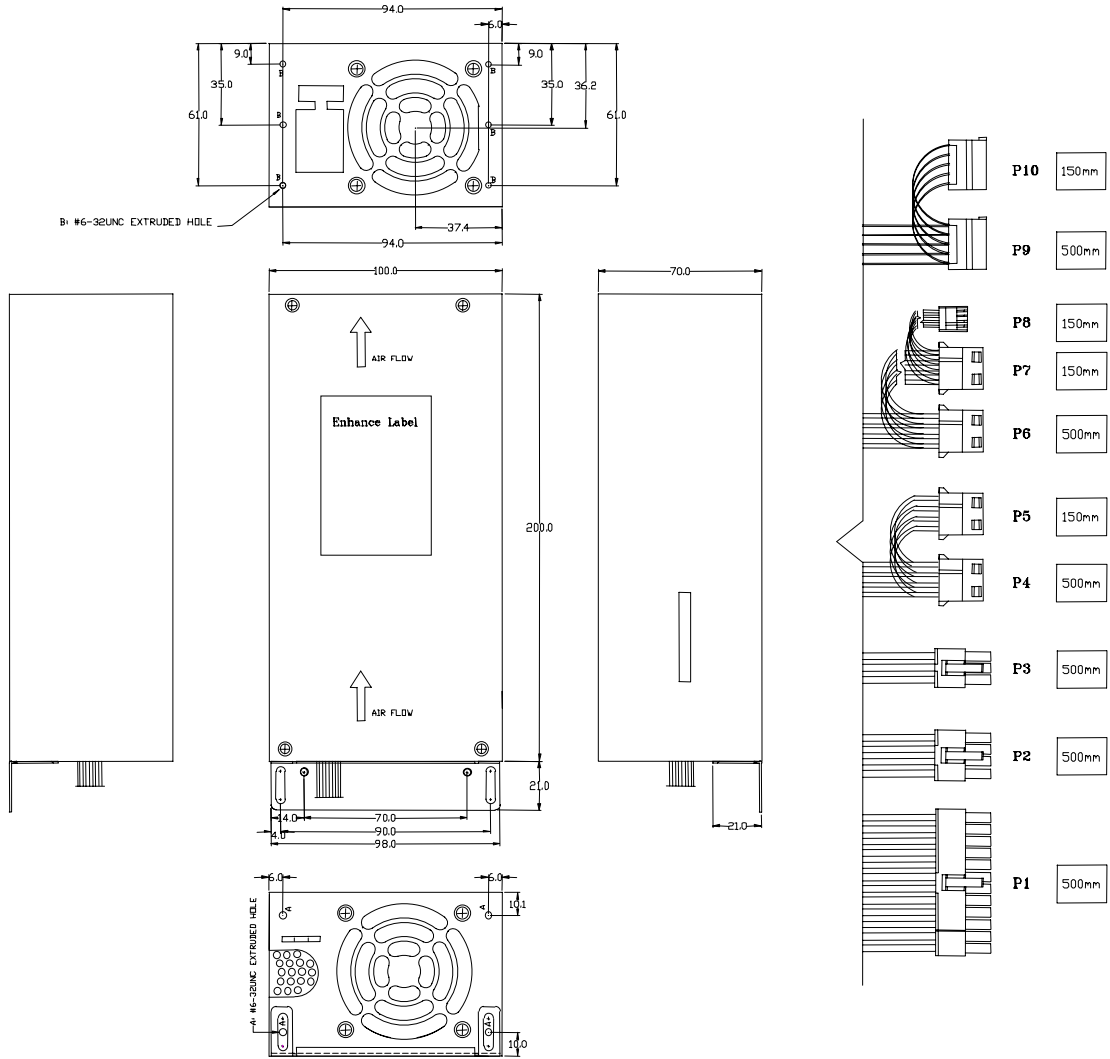
## Output Specifications

| Voltage | Regulation Load | Minimum Load | Maximum Load | Peak  |
|---------|-----------------|--------------|--------------|-------|
| +3.3V   | +/- 5%          | 0.5A         | 22.0A        | --    |
| +5.0V   | +/- 5%          | 7.0A         | 20.0A        | --    |
| +12.0V1 | +/- 5%          | 2.0A         | 15.0A        | 18.0A |
| +12.0V2 | +/- 5%          | 2.0A         | 15.0A        | 18.0A |
| -12.0V  | +/- 10%         | 0A           | 0.5A         | --    |
| -5.0V   | +/- 5%          | 0A           | 1.0A         | --    |
| +5 Vsb  | +/- 5%          | 0.1A         | 2.0A         | --    |

(\*) Total maximum combines load output on +3.3V and +5V rails is 150 Watts.

# ENS-0748A-FC

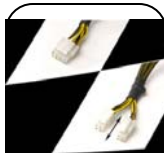
## Mechanical Drawing



EPS2U



Main power  
(20|4, 24 pin)  
- P1



Aux12V  
(4|4, 8 pin)  
- P2



PCIe  
(6 pin) - P3



IDE Drive  
- P4 ~ P7



FDD Drive  
- P8



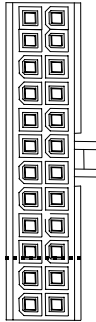
SATA Drive  
- P9 ~ P10

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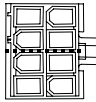
EPS2U

## Description

P1 - Main Power



P2 - 8 Pin CPU-VR Power Connector



P3 - PCI-Express Power Connector



P4 to P7 - Peripheral



P8 - Floppy



P9 & P10 - Serial ATA



## Wire Harness Pin Assignment

### Connector Housing

Molex 39-01-2240 or Equivalent (20+4 Split)

|    |        |        |    |        |          |
|----|--------|--------|----|--------|----------|
| 1  | Orange | +3.3V  | 13 | Orange | +3.3V    |
| 2  | Orange | +3.3V  | 14 | Blue   | -12VDC   |
| 3  | Black  | GND    | 15 | Black  | GND      |
| 4  | Red    | +5V    | 16 | Green  | PS_ON    |
| 5  | Black  | GND    | 17 | Black  | GND      |
| 6  | Red    | +5V    | 18 | Black  | GND      |
| 7  | Black  | GND    | 19 | Black  | GND      |
| 8  | Gray   | PWR OK | 20 | NC     | Reserved |
| 9  | Purple | 5 VSB  | 21 | Red    | +5V      |
| 10 | Yellow | +12V2  | 22 | Red    | +5V      |
| 11 | Yellow | +12V2  | 23 | Red    | +5V      |
| 12 | Orange | +3.3V  | 24 | Black  | GND      |

Molex 39-01-2080 or Equivalent (4+4 Split)

|   |       |     |   |               |       |
|---|-------|-----|---|---------------|-------|
| 1 | Black | GND | 5 | Yellow /Black | +12V1 |
| 2 | Black | GND | 6 | Yellow /Black | +12V1 |
| 3 | Black | GND | 7 | Yellow /Black | +12V1 |
| 4 | Black | GND | 8 | Yellow /Black | +12V1 |

Molex 45559-0002 or Equivalent

|   |        |       |   |       |     |
|---|--------|-------|---|-------|-----|
| 1 | Yellow | +12V2 | 4 | Black | GND |
| 2 | Yellow | +12V2 | 5 | Black | GND |
| 3 | Yellow | +12V2 | 6 | Black | GND |

Molex 8981-04P or Equivalent

|   |        |       |
|---|--------|-------|
| 1 | Yellow | +12V2 |
| 2 | Black  | GND   |
| 3 | Black  | GND   |
| 4 | Red    | +5V   |

AMP 171822-4 or Equivalent

|   |        |       |
|---|--------|-------|
| 1 | Red    | +5V   |
| 2 | Black  | GND   |
| 3 | Black  | GND   |
| 4 | Yellow | +12V2 |

Molex 88751 or Equivalent

|   |        |       |
|---|--------|-------|
| 1 | Yellow | +12V2 |
| 2 | Black  | GND   |
| 3 | Red    | +5V   |
| 4 | Black  | GND   |
| 5 | Orange | +3.3V |

### Dimension (WxLxH)

- 100 x 200 x 70 (mm)
- 3.93 x 7.9 x 2.76 (inch)

### Cooling Fan

- 12V DC, 60mm x 2

### Notes

- Specification subject to change without notice. All new processors support will be updated once official announced by vendors
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- Last Update: 9/6/2006