



### FEATURES

- Efficiency up to 92%
- Input Range 180~264VAC
- Output Voltage: 12V, 5V, 3.3V, -12V, 5Vsb
- Compact size: 150\*81.5\*40mm
- 1U form factor
- Power Factor Correction
- Remote on/off control
- Remote sense
- Three years warranty

### Model List

| Model Number   | Input Voltage Range | Input Current | Inrush Current | Output Current Range |        |        |        |        |        |       |      | Output Power | Efficiency   |
|----------------|---------------------|---------------|----------------|----------------------|--------|--------|--------|--------|--------|-------|------|--------------|--------------|
|                |                     |               |                | 12V1                 | 12V2   | 12V3   | 12V4   | 5V     | 3.3V   | -12V  | 5Vsb |              |              |
|                | VAC                 | A             | A              | A                    | A      | A      | A      | A      | A      | A     | A    | W            | %            |
| DPS-650XB-2 C  | 180~264             | <5            | <55            | 0.1~24               | 0.1~24 | 0.1~24 | 0.1~21 | 0.3~23 | 0.3~20 | 0~0.5 | 0~3  | 650W         | 92@100% load |
| DPS-750AB-26 C |                     | <5            | <40            | 0.1~24               | 0.1~24 | 0.1~24 | 0.1~24 | 0.3~28 | 0.3~18 | ---   | 0~3  | 800W         |              |
| DPS-950AB A    |                     | <7            | <50            | 0.7~20               | 0.7~20 | 0.7~20 | 0.7~20 | 0.7~20 | 0.7~20 | ---   | 0~3  | 950W         |              |

### Input Characteristics

| Parameter       |                                        |
|-----------------|----------------------------------------|
| Frequency       | 47~63 Hz                               |
| Power Factor    | >0.98 @ 100% load<br>>0.98 @ 100% load |
| Leakage Current | <3.5mA @ 240VAC/50Hz                   |

### Output Characteristics

| Parameter               |                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Voltage          | 12V1, 12V2, 12V3, 12V4, 5V, 3.3V, 5Vsb<br>-12V for DPS-650XB-2 C only<br>12V5 for DPS-950AB A only                                                                   |
| Ripple & Noise (Note 1) | 12V1, 12V2, 12V3, 12V4, 12V5, -12V: <120mVp-p<br>5V, 3.3V: <50mVp-p for DPS-650XB-2 C, DPS-750AB-26 C only<br>5V, 3.3V: <60mVp-p for DPS-950AB A only<br>5Vsb: <50mV |
| Voltage Regulation      | ±5%                                                                                                                                                                  |
| Rise Time               | 1~70ms                                                                                                                                                               |
| Hold Up Time            | >17ms                                                                                                                                                                |

### Protections

| Parameter        |                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------|
| Overload         | 110%~150% of rated current<br>Shutdown and latch off                                            |
| Over Voltage     | 12V: 13.5V~15V<br>5V: 5.7V~6.5V<br>3.3V: 3.9V~4.5V<br>5VSB: 5.7V~6.5V<br>Shutdown and latch off |
| Over Temperature | Shut Off                                                                                        |

### Environmental Specifications

| Parameter                   |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| Operating Temperature Range | 0~50°C                                                                                    |
| Storage Temperature Range   | -20~80°C for DPS-650XB-2 C, DPS-750AB-26 C only<br>-40~70°C for DPS-950AB A only          |
| Storage Humidity            | 5~90%                                                                                     |
| Altitude                    | <3000m for DPS-650XB-2 C, DPS-750AB-26 C only<br><5000m for DPS-950AB A only              |
| MTBF                        | 250,000 hours                                                                             |
| Dimension                   | 240*100*40mm for DPS-650XB-2 C, DPS-750AB-26 C only<br>240*81.5*40mm for DPS-950AB A only |
| Weight                      | 1.6Kg                                                                                     |

### Safety

| Parameter        | Standards                                      |
|------------------|------------------------------------------------|
| Safety Approvals | TUV+CB, UL & cUL 60950, CCC, CE, BSMI, FCC, CE |
| EMC Emission     | EN55022 (CISPR22) Class A, EN61000-3-2, -3     |
| EMC Immunity     | EN55024, EN61000-4-2,3,4,5,6,8,11              |

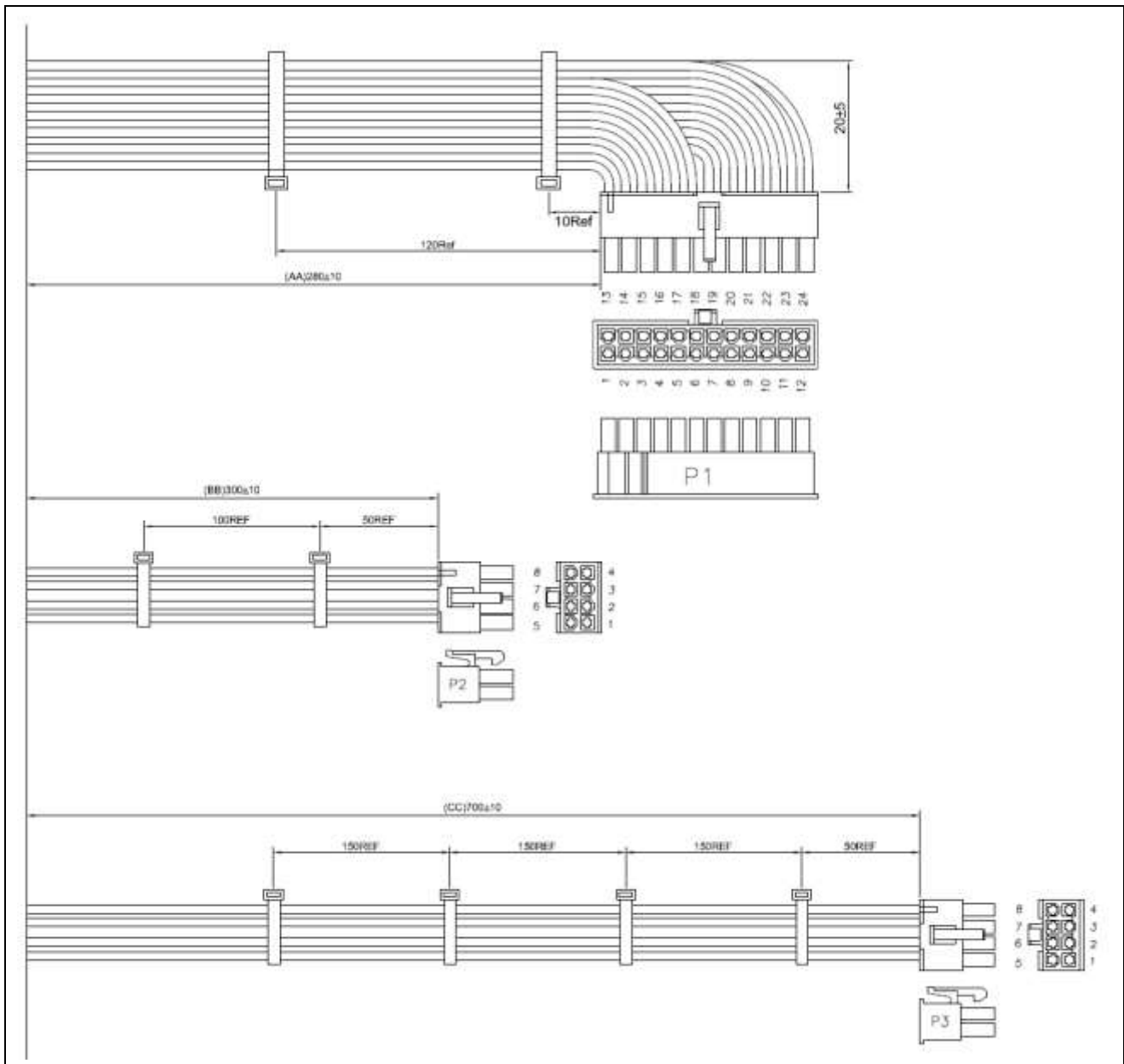
### Function

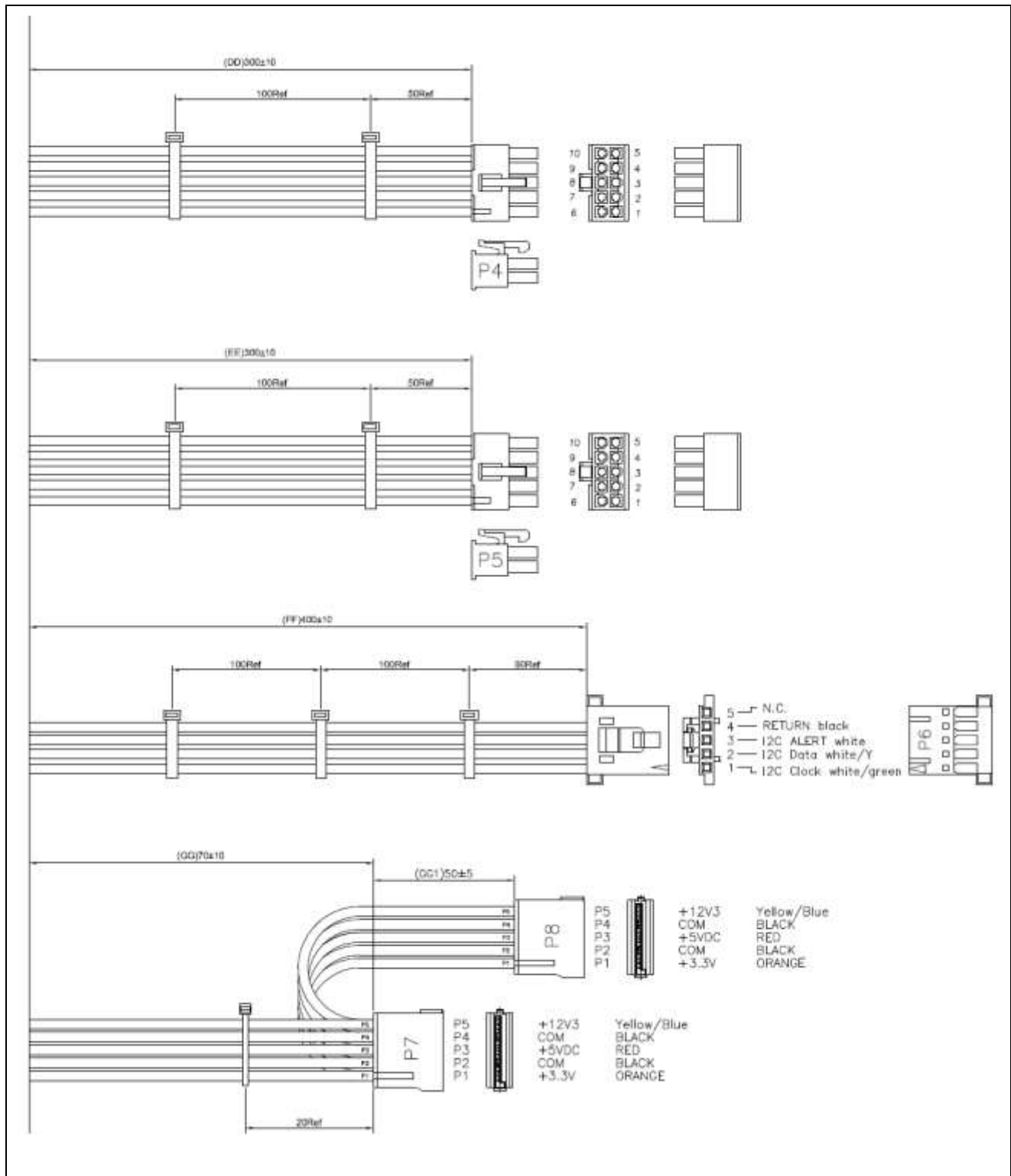
| Parameter                 |                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Remote ON/OFF             | Power supply ON when logic level low (0~0.8V)<br>Power supply high OFF when logic level high (2.0~5.25V)              |
| Remote Sense (mV)         | Supports 3.3V and 5V only                                                                                             |
| PW-OK (Power Good Signal) | Output high to indicate that +5V output has reached 4.75V.<br>Output low when any of the outputs is out of regulation |

### Notes

- 1 Ripple & Noise measurement bandwidth is 0-20MHz, with 10μF, ceramic capacitor and 1μF ceramic capacitor.

[illegible]





### P1 ASSIGNMENT and UL 1430 SOFT WIRE:

Connector: Molex 39-01-2245 or approved equivalent

Contacts: Molex 44476-1111 or approved equivalent

| PIN NO.       | AWG    | COLOR  | SIGNAL  |
|---------------|--------|--------|---------|
| 1,2a,12,13    | AWG#18 | ORANGE | +3.3V   |
| 2b            | AWG#24 | ORANGE | +3.3VRS |
| 3,5           | AWG#18 | BLACK  | GND     |
| 7,15          | AWG#18 | BLACK  | GND     |
| 17,18,19,24   | AWG#18 | BLACK  | GND     |
| 4a,6,21,22,23 | AWG#18 | RED    | +5V     |
| 4b            | AWG#24 | RED    | +5VRS   |
| 10,11         | AWG#18 | YELLOW | +12V1   |
| 8             | AWG#24 | GRAY   | PS-GOOD |
| 9             | AWG#18 | PURPLE | +5VSB   |
| 16            | AWG#24 | GREEN  | PS-ON   |

### P2 ASSIGNMENT and UL 1430 SOFT WIRE:

Connector: Molex 39-01-2085 or approved equivalent

Contacts: Molex 44476-1111 or approved equivalent

| PIN NO. | Signal | AWG | COLOR   |
|---------|--------|-----|---------|
| 1,2     | GND    | 18  | BLACK   |
| 3,4     | GND    | 18  | BLACK   |
| 5,6     | +12V2  | 18  | Y/Black |
| 7,8     | +12V1  | 18  | YELLOW  |

### P3 ASSIGNMENT and UL 1430 soft WIRE:

Connector: Molex 39-01-2085 or approved equivalent

Contacts: Molex 44476-1111 or approved equivalent

| PIN NO. | Signal | AWG | COLOR   |
|---------|--------|-----|---------|
| 1,2     | GND    | 18  | BLACK   |
| 3,4     | GND    | 18  | BLACK   |
| 5,6     | +12V4  | 18  | Y/white |
| 7,8     | +12V3  | 18  | Y/blue  |

### P4&P5 ASSIGNMENT and UL 1430 soft WIRE:

Connector: Molex 39-01-2105 or approved equivalent

Contacts: Molex 44476-1111 or approved equivalent

| PIN NO. | Signal | AWG | COLOR   |
|---------|--------|-----|---------|
| 1,2,3,4 | GND    | 18  | BLACK   |
| 5       | +3.3V  | 18  | ORANGE  |
| 6       | +12V2  | 18  | Y/BLACK |
| 7       | +12V3  | 18  | Y/BLUE  |
| 8,9     | +5V    | 18  | RED     |
| 10      | +12V4  | 18  | Y/WHITE |

### P7&P8 ASSIGNMENT and UL 1430 soft WIRE:

Connector: FW7 A3811H00-5P or approved equivalent

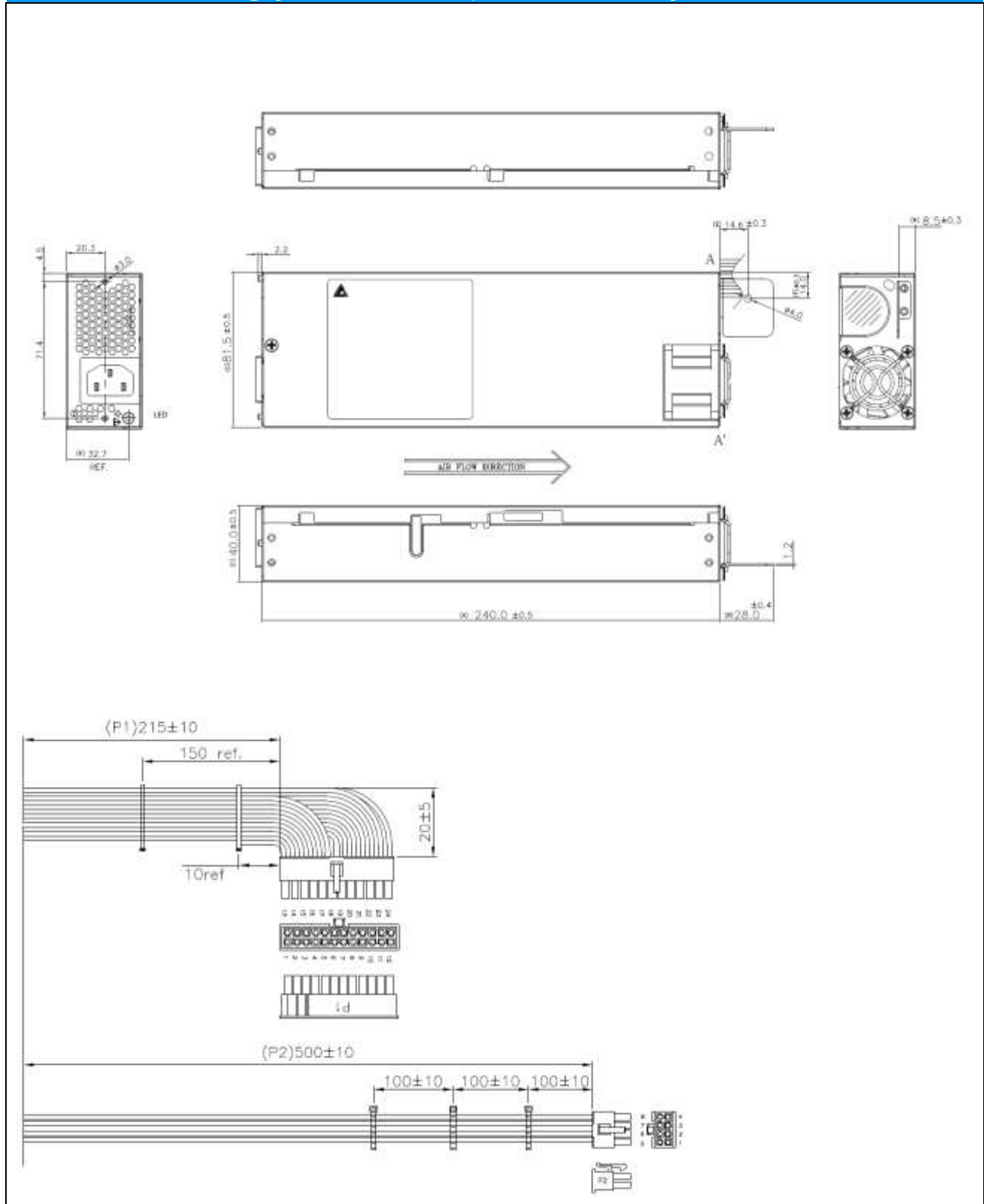
Contacts: JMT A3811TOP-0D/A3811T2P-0D or approved equivalent

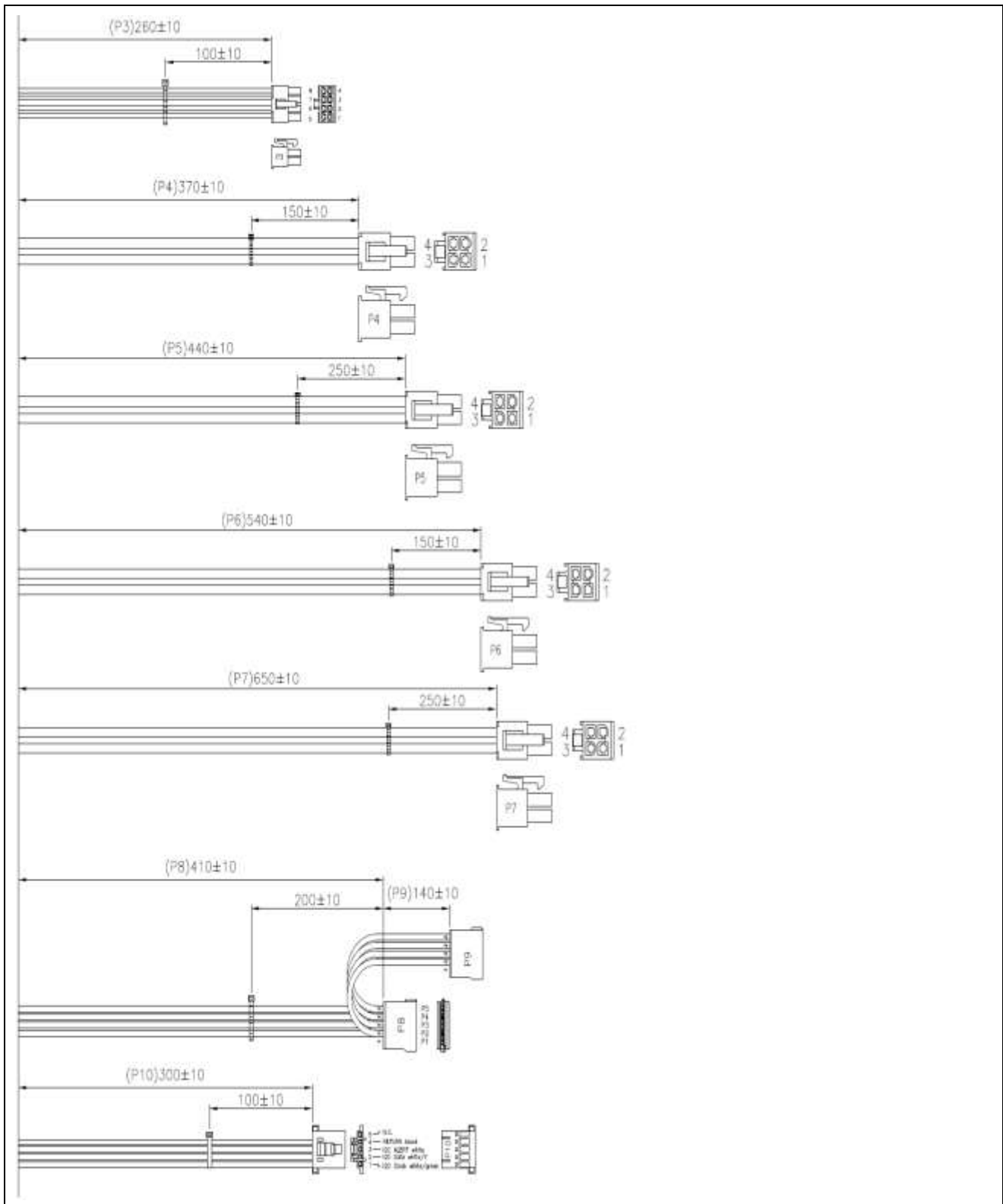
|    | PIN NO. | WIRE UL | AWG | COLOR       |
|----|---------|---------|-----|-------------|
| P7 | 1       | 1430    | 18  | ORANGE      |
|    | 2       | 1430    | 18  | BLACK       |
|    | 3       | 1430    | 18  | RED         |
|    | 4       | 1430    | 18  | BLACK       |
|    | 5       | 1430    | 18  | Yellow/Blue |
| P8 | 1       | 1430    | 18  | ORANGE      |
|    | 2       | 1430    | 18  | BLACK       |
|    | 3       | 1430    | 18  | RED         |
|    | 4       | 1430    | 18  | BLACK       |
|    | 5       | 1430    | 18  | Yellow/Blue |

P6 ASSIGNMENT :Connector: Molex 50-57-9705 or approved equivalent  
Contacts: Molex 16-02-0087 or approved equivalent

| PIN NO. | WIRE #        | OUTPUT    | COLOR        |
|---------|---------------|-----------|--------------|
| 1       | AWG 24 UL1430 | I2C CLCOK | WHITE/GREEN  |
| 2       | AWG 24 UL1430 | I2C DATA  | WHITE/YELLOW |
| 3       | AWG 24 UL1430 | I2C ALERT | WHITE        |
| 4       | AWG 24 UL1430 | RETURN    | BLACK        |
| 5       | —             | —         | —            |

### Mechanical Drawing (DPS-650XB-2 C, DPS-750AB-26)





P1 ASSIGNMENT and UL 1430 WIRE:  
HOUSING MOLEX 39-01-2245 OR Equivalent

P1

| PIN NO.       | AWG    | COLOR   | SIGNAL  |
|---------------|--------|---------|---------|
| 1,2a,12,13    | AWG#18 | ORANGE  | +3.3V   |
| 2b            | AWG#24 | ORANGE  | +3.3VRS |
| 3,5a          | AWG#18 | BLACK   | GND     |
| 5b            | AWG#24 | BLACK   | RS      |
| 7,15          | AWG#18 | BLACK   | GND     |
| 17,18,19,24   | AWG#18 | BLACK   | GND     |
| 4a,6,21,22,23 | AWG#18 | RED     | +5V     |
| 4b            | AWG#24 | RED     | +5VRS   |
| 20            | N.A    |         |         |
| 10,11         | AWG#18 | Y/BLACK | +12V5   |
| 8             | AWG#24 | GRAY    | PS-GOOD |
| 9             | AWG#18 | PURPLE  | +5VSB   |
| 14            | N.A    |         |         |
| 16            | AWG#24 | GREEN   | PS-ON   |

P2 ASSIGNMENT and UL 1430 WIRE:  
HOUSING MOLEX 39-01-2085 OR Equivalent

| PIN NO. | Signal | AWG | COLOR  |
|---------|--------|-----|--------|
| 5,6     | +12V1  | 18  | YELLOW |
| 1,2,3,4 | GND    | 18  | BLACK  |
| 7,8     | +12V2  | 18  | Y/BLUE |

P3 ASSIGNMENT and UL 1430 WIRE:  
HOUSING MOLEX 39-01-2085 OR Equivalent

| PIN NO. | Signal | AWG | COLOR   |
|---------|--------|-----|---------|
| 5,6     | +12V3  | 18  | Y/WHITE |
| 1,2,3,4 | GND    | 18  | BLACK   |
| 7,8     | +12V4  | 18  | GREEN   |

P4P5 ASSIGNMENT and UL 1430 WIRE:  
HOUSING MOLEX 39-01-2045 OR Equivalent

| PIN NO. | Signal | AWG | COLOR   |
|---------|--------|-----|---------|
| 1       | GND    | 18  | BLACK   |
| 3       | +12V3  | 18  | Y/WHITE |
| 2,4     | NC     |     |         |

P6P7 ASSIGNMENT and UL 1430 WIRE:  
HOUSING MOLEX 39-01-2045 OR Equivalent

| PIN NO. | Signal | AWG | COLOR |
|---------|--------|-----|-------|
| 1       | GND    | 18  | BLACK |
| 3       | +12V4  | 18  | GREEN |
| 2,4     | NC     |     |       |

P8P9 ASSIGNMENT and UL 1430 WIRE:  
HOUSING: JWT A3811H00-5P or EQUIVALENT.

| PIN NO. | Signal | AWG | COLOR  |
|---------|--------|-----|--------|
| 2,4     | GND    | 20  | BLACK  |
| 3       | +5V    | 20  | RED    |
| 5       | +12V5  | 20  | Y/BLAK |

P10 : PIN ASSIGNMENT  
HOUSING: MOLEX 50-57-9705 OR Equivalent  
CONTACT: MOLEX 16-02-0087 OR Equivalent

| PIN NO. | Signal    | AWG | COLOR   |
|---------|-----------|-----|---------|
| 1       | I2C CLOCK | 24  | W/Green |
| 2       | I2C DATA  | 24  | Y/W     |
| 3       | I2C ALERT | 24  | WHITE   |
| 4       | Return    | 24  | BLACK   |
| 5       | N.A       |     |         |

### WARRANTY

Delta offers a three (3) years limited warranty. Complete warranty information is listed on our web site or is available upon request from Delta.

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