

### 1. Safety Instructions

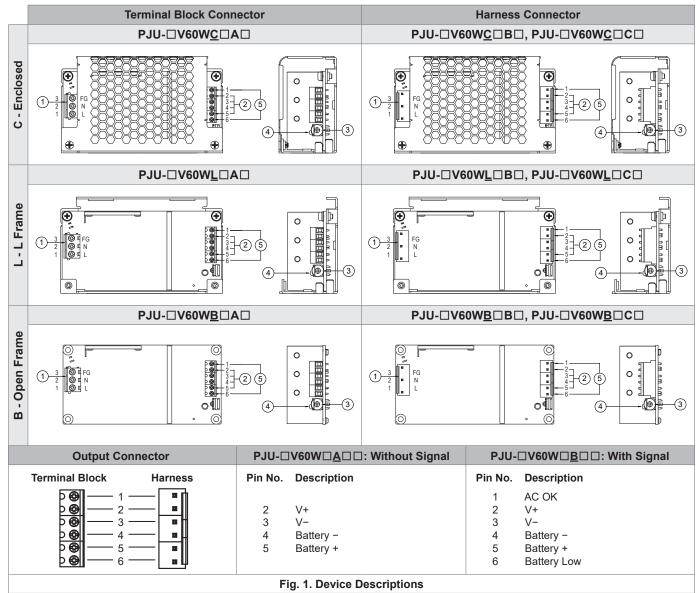
- For enclosed and L frame type of power supply, to ensure sufficient convection cooling, always maintain a distance of ≥ 50mm from all surfaces while the device is in operation.
- For open frame type of power supply, please ensure the mounted device is kept at ≥ 8mm safety distance for D1 from other components and equipments (Refer to Fig. 3.1). Please insert an insulation sheet between the system and product, if the safety distance is < 8mm for D2 (Refer to Fig. 3.2).
- · The device is not recommended to be placed on low thermal conductive surface, for example, plastics.
- Note that the enclosure of the device can become very hot depending on the ambient temperature and load of the power supply. Do not touch the device while it is in operation or immediately after power is turned OFF. Risk of burning!
- Do not touch the terminals while power is being supplied. Risk of electric shock.
- Prevent any foreign metal, particles or conductors to enter the device through the openings during installation. It can cause: Electric shock;
  Safety Hazard; Fire; Product failure
- · Battery need to be protected from short circuit while installation & servicing. Danger of explosion.
- · Signal connector should not interact with AC Input.
- Warning: The power supply must be mounted by metal screws onto a grounded metal surface. When connecting the device, secure Earth connection before connecting L and N. When disconnecting the device, remove L and N connections before removing the Earth connection.

For open frame type of installation, ensure the power supply's Protective Earthing (marked (a) in Fig. 3.1) is connected to the system's Protective Earthing (PE). It is also recommended that the input FG (Fig. 1, ①) be connected to the system's PE.

#### 2. Device Descriptions

### ▶ PJU-60W (Refer to Fig. 1)

- 1 Input connector
- 2 Output connector
- 3 DC voltage adjustment potentiometer
- 4 DC OK control LED (Green)
- ⑤ Signal connector (for PJU-□V60W□B□□ only)

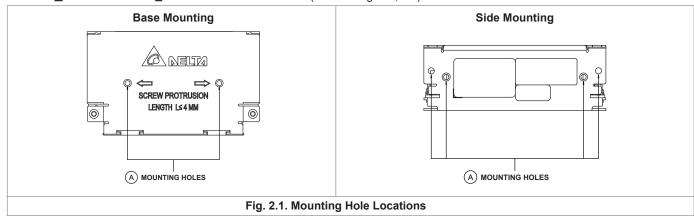


\*Please note that all images are for illustrative purposes only, and do not necessarily represent the exact products.

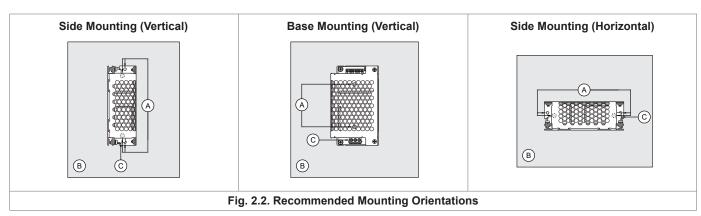


### 3. Installation of the Device

### ▶ PJU-60WC□□□ / PJU-60WL□□□: Enclosed / L Frame (Refer to Fig. 2.1, 2.2)

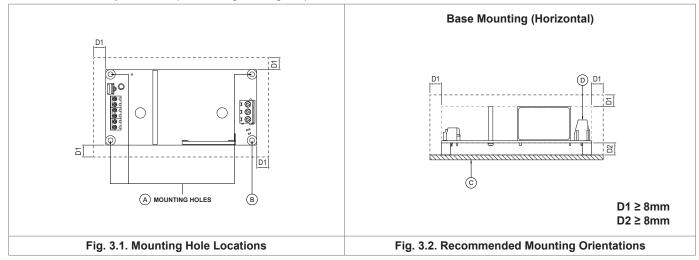


- The power supply shall be mounted on a sturdy heat conducting surface with minimum of 2 mounting holes (Fig. 2.1, (A)) for base mounting or side mounting. Use M3 screws only. The screw penetration into the chassis must be 3.5-4mm. For the other mounting holes without screw threads, please use suitable screw and nut.
- Recommended mounting tightening torque: 4~8 Kgf.cm.



- (A) Mounting holes for enclosed and L frame type of power supply.
- B This surface belongs to customer's end system or panel where the power supply is mounted.
- © Input connector

## ▶ PJU-60WB□□□: Open Frame (Refer to Fig. 3.1, Fig. 3.2)



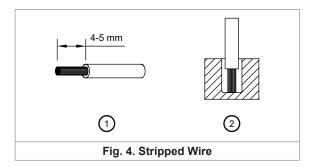
- (A) Mounting holes for open frame type of power supply. (1)
- ® Mounting hole should be connected to the system's protective earthing (PE). (1)
- © This surface belongs to customer's end system or panel where the power supply is mounted.
- D Input connector

Note (1): 4 × Ø3.30 Mounting Holes; Ø6 Max Dimension of Screw Head and Stand-off. Recommended mounting torque for tightening: 4~8 Kgf.cm.



## 4. Connection

| Connector<br>Type                  | Specific | cations                                      |                                |          | PJU-13V60W      | PJU-27V60W |
|------------------------------------|----------|--|--------------------------------|----------|-----------------|------------|
| Terminal<br>Block<br>Connector (2) | DECA     | Input<br>(CN1)                               | Stranded or                    | mm²      | 0.32-3.3        | 0.21-3.3   |
|                                    |          |  | Solid Wire Size                | AWG      | 22-12           | 24-12      |
|                                    |          |  | Torque                         | Kgf.cm   | 8.0             | 8.0        |
|                                    |          |  |                                | lb in    | 7.0             | 7.0        |
|                                    |          | Output<br>(CN2) -<br>without Pin<br>No. 1, 6 | Stranded or<br>Solid Wire Size | mm²      | 0.32-1.3        | 0.21-1.3   |
|                                    |          |  |                                | AWG      | 22-16           | 24-16      |
|                                    |          |  | Torque                         | Kgf.cm   | 2.3             | 2.3        |
|                                    |          |  |                                | lb in    | 2.0             | 2.0        |
|                                    |          | Output &<br>Signal<br>(CN2)                  | Stranded or<br>Solid Wire Size | mm²      | 0.32-1.3        | 0.21-1.3   |
|                                    |          |  |                                | AWG      | 22-16           | 24-16      |
|                                    |          |  | T                              | Kgf.cm   | 2.3             | 2.3        |
|                                    |          |  | Torque                         | lb in    | 2.0             | 2.0        |
| Harness<br>Connector               | JST      | Input<br>(CN1)                               | Header (Board M                | ounting) | B3P5-VH(LF)(SN) |            |
|                                    |          |  | Mating Connector               |          | VHR-5N          |            |
|                                    |          |  | Terminal                       |          | SVH-21T-P1.1    |            |
|                                    |          |  | AWG                            |          | 22-18           |            |
|                                    |          | Output<br>(CN2) -<br>without Pin<br>No. 1, 6 | Header (Board Mounting)        |          | B4P-VH(LF)(SN)  |            |
|                                    |          |  | Mating Connector               |          | VHR-4N          |            |
|                                    |          |  | Terminal                       |          | SVH-21T-P1.1    |            |
|                                    |          |  | AWG                            |          | 22-18           |            |
|                                    |          | Output &<br>Signal<br>(CN2)                  | Header (Board Mounting)        |          | B6P-VH(LF)(SN)  |            |
|                                    |          |  | Mating Connector               |          | VHR-6N          |            |
|                                    |          |  | Terminal                       |          | SVH-21T-P1.1    |            |
|                                    |          |  | AWG                            |          | 22-18           |            |
|                                    | Molex    | Input<br>(CN1)                               | Header (Board Mounting)        |          | 26-62-4051      |            |
|                                    |          |  | Mating Connector               |          | 26-03-3051      |            |
|                                    |          |  | Terminal                       |          | 08-52-0113      |            |
|                                    |          |  | AWG                            |          | 20-18           |            |
|                                    |          | Output<br>(CN2) -<br>without Pin<br>No. 1, 6 | Header (Board Mounting)        |          | 26-60-4040      |            |
|                                    |          |  | Mating Connector               |          | 26-03-3041      |            |
|                                    |          |  | Terminal                       |          | 08-52-0113      |            |
|                                    |          |  | AWG                            |          | 20-18           |            |
|                                    |          | Output &<br>Signal<br>(CN2)                  | Header (Board Mounting)        |          | 26-60-4060      |            |
|                                    |          |  | Mating Connector               |          | 26-03-3061      |            |
|                                    |          |  | Terminal                       |          | 08-52-0113      |            |
|                                    |          |  | AWG                            |          | 20-18           |            |



# Note (2): Terminal Block Connector

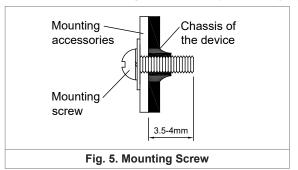
To secure reliable and shock proof connections, the stripping length should be 4-5mm (see Fig. 4, 1). Please ensure that the wires are fully inserted into the connecting terminals as shown in Fig. 4, 2. All wire strands must be fully inserted into the terminals with the screws securely fastened in order to ensure safety and maximum contact.



### 5. Battery Information

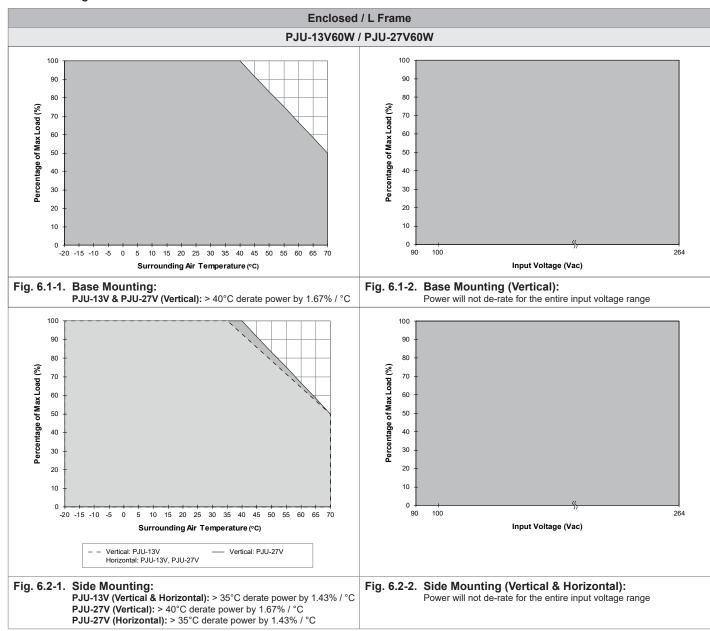
|                         | PJU-13V60W   | PJU-27V60W    |
|-------------------------|--------------|---------------|
| Battery Capacity        | 3.2AH - 15AH | 3.2AH - 7.2AH |
| Battery Cut-off Voltage | 11V ± 0.5V   | 22V ± 1V      |

## 6. Installation of Mounting Accessories (Refer to Fig. 5)

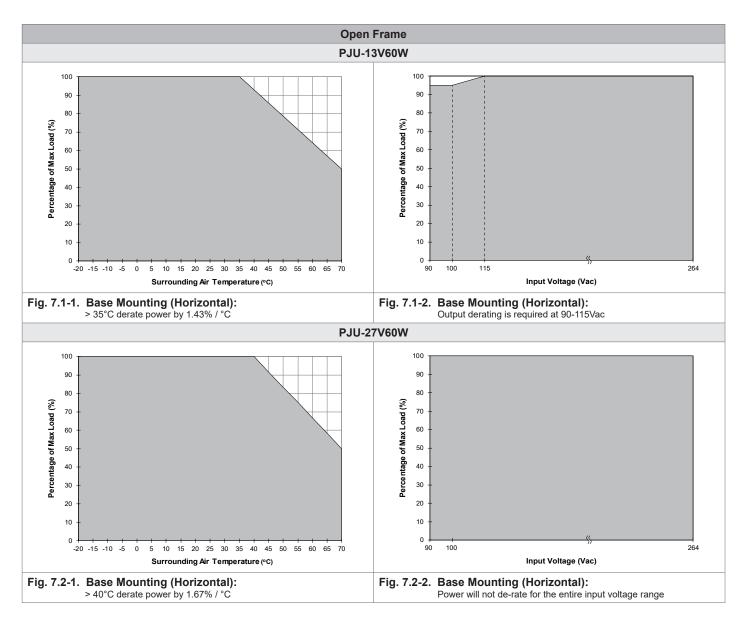


- Only use M3 screw 3.5-4mm through the base or side mounting holes. This is to keep a safety distance between the screw and internal components.
- Recommended mounting tightening torque: 4~8 Kgf.cm.

### 7. Power Derating Curve







### Manufacturer:

Delta Electronics (Thailand) PCL. 909 Pattana 1 Rd., Muang, Samutprakarn, 10280 Thailand

## **Authorized Representative:**

Delta Greentech (Netherlands) B.V. Zandsteen 15, 2132 MZ Hoofddorp, The Netherlands