

1. Safety Instructions

- L frame (PML) and Open frame (PMB) options are to be manufactured by Delta and not to be reconfigured by users from the standard enclosed configuration.
- To ensure sufficient convection cooling, always maintain a safety distance of $\geq 20\text{mm}$ from all ventilated surfaces while the device is in operation.
- The device is not recommended to be placed on low thermal conductive surface like plastic.
- Ensure the mounted device is kept at $\geq 4\text{mm}$ safety distance at all sides from other components and equipments (Refer to Fig. 5).
- 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 from entering the device during installation. It may cause electric shock, safety hazard, fire or product failure.
- The power supply must be mounted by metal screws onto a grounded metal surface. It is highly recommended that the Earth terminal on the connector be connected to the grounded surface.

For Open Frame type of installation, ensure the power supply's Protective Earthing (Marked "PE" in Fig. 5) point is connected to the system's Protective Earthing (PE). It is recommended that the input FG (Fig. 1 location ①) be connected to the system's PE.

- Warning (For Standard Terminal Block and Front Face Terminal Block products): 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.

2. Device Descriptions

Refer to Fig. 1.:

- ① Input & Output terminal block connector
- ② DC voltage adjustment potentiometer
- ③ DC OK control LED (Green)

3. Installation of the Device

Refer to Fig. 2.:

- (A) Mounting holes for the power supply (device). The device shall be mounted on minimum of 2 mounting holes using M3 screw of minimum 5mm length.
- (B) This surface belongs to customer's end system or panel where the device is mounted.
- (C) Connector

- PM□-□V□W1AA / PM□-□V□W1AG: Use flexible cable (stranded or solid) of AWG No. 22-12. User should calculate and select the suitable wire specification (type/quantity/diameter) according to actual output current. The torque at the Connector shall not exceed 13Kgf.cm. The insulation stripping length should not exceed 0.275" or 7mm (Refer to Fig. 3).
- PM□-□V□W1AH: Use flexible cable (stranded or solid) of AWG No. 28-18. Please refer to Table 1 for the recommended Housing and Terminal.

| Table 1: | Connector (Board Mounting) | Housing | Terminal |
|--------------|----------------------------|---------|--------------|
| Input (JST) | B3P5-VH(LF)(SN) | VHR-5N | SVH-21T-P1.1 |
| Output (JST) | B2P3-VH(LF)(SN) | VHR-3N | |

4. Installation of Mounting Accessories

- For PMT and PML Series (Refer to Fig. 4): Only use M3 screw $\leq 3\text{mm}$ through the base mounting holes. This is to keep a safe distance between the screw and internal components. Recommended mounting tightening torque: 4~7Kgf.cm.
- For PMB Series: (Refer to Fig. 5): The mounting holes on any mounting accessories for the device should be kept at a diameter of $< 6.5\text{mm}$. This is to ensure sufficient safety distance between the mounting screw and the components around the mounting holes on the PCBA. Therefore, the diameter of the mounting screw should be kept at $< 6.5\text{mm}$.

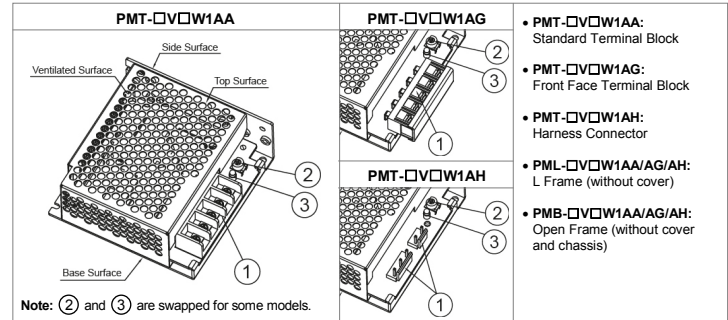


Fig. 1. Device Descriptions

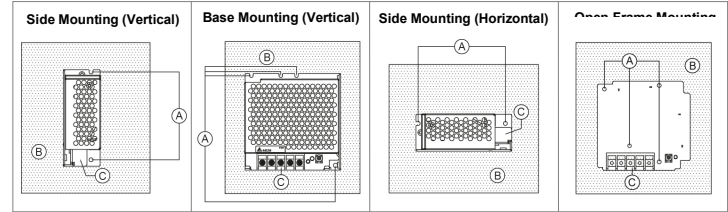


Fig. 2. Mounting Orientation



Fig. 3. Wire Type

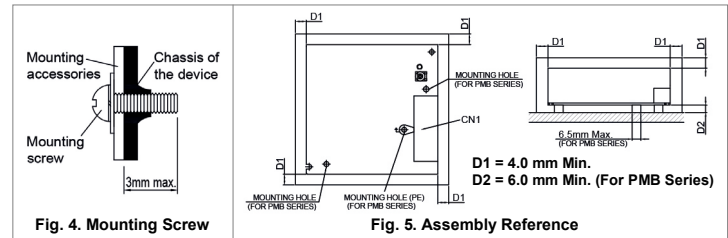


Fig. 4. Mounting Screw

Fig. 5. Assembly Reference

1. 安全规范

- 不允许使用者将标准电源 (PMT) 自行拆解为无盖式 (PML) 或裸板式 (PMB) 后组装与使用。
- 与通风表面保持至少 20mm 的安全距离，以确保对流冷却充分。
- 本产品不适合摆放在低热导体，例如：塑胶。
- 本产品安装完成后，周围设备必须与本产品保持至少 4mm 的距离以满足安全规范(请参考图五)。
- 受环境温度及产品负载的影响，本机外壳温度会很高，因此在上电时或切断电源后短时间内不要触摸本机，以免烫伤。
- 请勿在上电时触摸连接端子，以防电击危险。
- 安装过程中，应避免金属元件或金属导体通过空隙或通风孔掉入产品内而引起下列状况。
— 电击；安全危害；火灾；产品异常
- 安装时，电源供应器之铁壳必须以金属螺丝锁附于固定面，该固定面必须为金属材质并与电源主接地连接。并建议输入接地端子连接至电源主接地。
- 针对裸板型式产品，安装时，电源供应器之接地点 (图五标示为“PE”) 必须与系统的电源主接地连接。并建议输入接地端子 (图一位置 ①) 连接至系统的电源主接地。
- 警告 (备有标准或朝前连接端子的产品)：在连接产品电源供应时，产品必须先接地然后才接 L 和 N。当要解开电源供应时，必须先把 L 和 N 解开然后才把接地解开。

2. 产品外观介绍

依据图一：

- ① 输入/输出连接端子
- ② 直流电压调节电位器
- ③ 直流电控制 OK 指示灯 (绿色)

3. 产品固定方式

依据图二：

- 在把产品安装在固定表面时，将螺丝锁入此固定孔。产品应该用长度至少 5mm 的 M3 螺丝锁入至少两个固定孔。
- 此固定表面为客户系统表面。
- 输入输出连接端子。

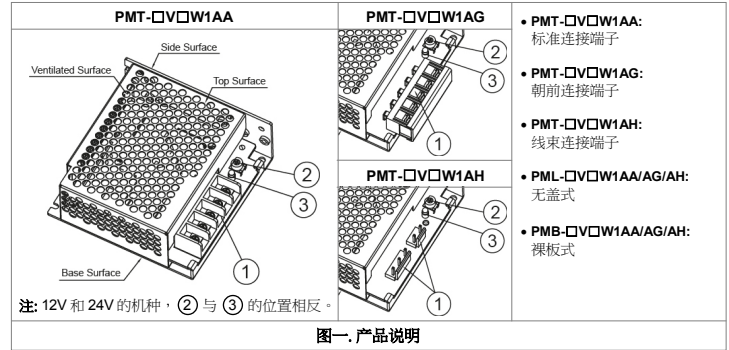
- PM□-□V□W1AA / PM□-□V□W1AG: 电线的设计可使用多股或实心，AWG No. 22-12。使用者需依产品实际的输入输出电流选择适当的电线规格 (种类/线数/线径)，扭矩不应该超过 13Kgf.cm。绝缘管剥开的长度不应该超过 0.275" 或者 7mm (图三)。
- PM□-□V□W1AH: 电线的设计可使用 AWG No. 22-18。建议使用之 Housing and Terminal (图表一)。

图表一：

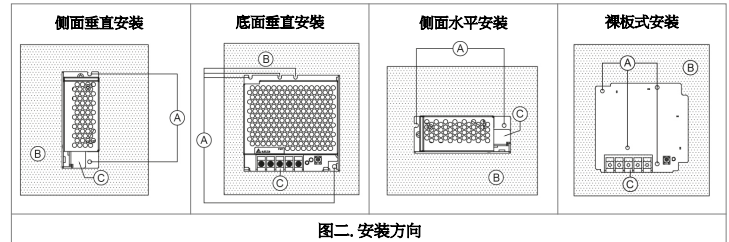
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4. 配件组合安装

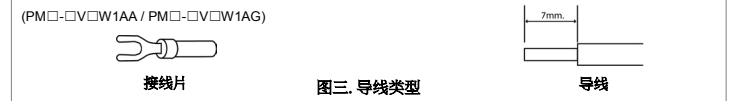
- PMT 及 PML 系列 (依据图四)：在把配件装上产品时，请使用长度不超过 3mm 的 M3 螺丝锁入产品底面的固定孔。这是为了确保螺丝和内部元件间有足够的绝缘距离。建议配件固定螺丝扭矩为 4~7Kgf.cm。
- PMB 系列 (依据图五)：安装孔下方的支撑配件直径请维持 6.5mm 以内。这是为了确保螺丝和内部元件间有足够的绝缘距离。为了确保支撑结构和 PCB 元件间有足够的绝缘距离，固定螺丝头部直径不能超过 6.5mm。



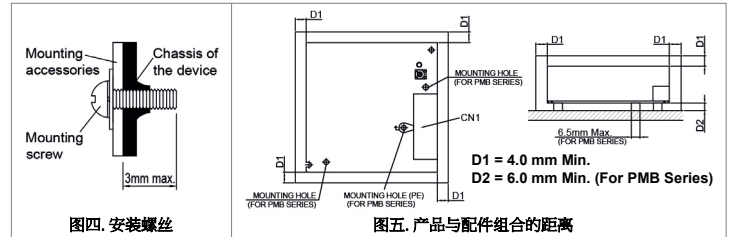
图一. 产品说明



图二. 安装方向



图三. 导线类型



图四. 安装螺丝

图五. 产品与配件组合的距离