GENERAL SAFETY INSTRUCTIONS

This Power Supply Unit is only for installation by professional installers within other equipment and must not be operated as a standalone product.

WARNING

Risk of electric shock
During operation high voltages
➤ Always disconnect the Power Supply Unit from any AC and DC supply voltages, and wait minimum 1 minute before you start working on it.
➤ When connecting the Power Supply Unit to an AC input voltage, first connect the earth ground wire to the terminal block, then connect N and L.
➤ When disconnecting the Power Supply Unit from the AC input voltage, first disconnect the wires N and L, then disconnect the earth ground wire from the terminal block.
➤ Take care that no objects can fall into the Power Supply Unit.
➤ Perform the installation in a dry environment so that no humidity can get into the Power Supply Unit.

CAUTION

High temperatures
During operation the Power Supply Unit gets very hot.
➤ Let the Power Supply Unit cool down before you start working on it.

MOUNTING ORIENTATIONS

COOLING REQUIREMENTS

To ensure sufficient fan cooling, the free space between fan and socket side surfaces should be as large as possible and ≥ 20 mm (≥ 0.79 in).

The Power Supply Unit should be placed on a metal surface. It should not be placed on isolating and low thermal conductive surfaces.

Refer to the datasheet for the maximum continuous rating of the Power Supply Unit under consideration of its environmental temperature.
**COMPONENTS IMA-S400-XX-XXXXX**

- Mating connector for J3 is either Molex, part number 51110-1450 (without locking ramp), or Molex part number 51110-1451 (with locking ramp). The connector is not shipped with the power supply unit.

**COMPONENTS IMA-S400-XX-XXXXX**

- Base plate mounting, M3 thread holes, maximum penetration 4.0 mm (0.16 in) (from outside face of chassis), torque 0.6 Nm (5.31 lb-in)
- (J1) Input terminal block, Switchlab T14-EMII03, M3.5 screw in 3 positions, maximum torque 1.3 Nm (11.5 lb-in)
- (J2) Output terminal block, Dinkle DT-7C-B01W-3943-02 (for 24 V and 48 V), M4 screw in 2 positions, maximum torque 1.5 Nm (13.28 lb-in) Dinkle 0166-8002C (for 12 V), M5 screw in 2 positions, maximum torque 2.4 Nm (21.24 lb-in)
- Mating connector for J3 is either Molex, part number 51110-1450 (without locking ramp), or Molex part number 51110-1451 (with locking ramp). The connector is not shipped with the power supply unit.

**COMPONENTS IMA-S600-XX-XXXXX**

- Base plate mounting, M3 thread holes, maximum penetration 4.0 mm (0.16 in) (from outside face of chassis), torque 0.6 Nm (5.31 lb-in)
- (J1) Input terminal block, Switchlab T14-EMII03, M3.5 screw in 3 positions, maximum torque 1.3 Nm (11.5 lb-in)
- (J2) Output terminal block, Dinkle DT-7C-B01W-5789-02, M4 screw in 2 positions, maximum torque 1.5 Nm (13.28 lb-in)
- Mating connector for J3 is either Molex, part number 51110-1450 (without locking ramp), or Molex part number 51110-1451 (with locking ramp). The connector is not shipped with the power supply unit.

**COMPONENTS IMA-S1000-XX-XXXXX**

- Base plate mounting, M3 thread holes, maximum penetration 4.0 mm (0.16 in) (from outside face of chassis), torque 0.6 Nm (5.31 lb-in)
- (J1) Input terminal block, Switchlab T14-EMII03, M3.5 screw in 3 positions, maximum torque 1.3 Nm (11.5 lb-in)
- (J2) Output terminal block, Dinkle DT-7C-B01W-5789-02, M4 screw in 2 positions, maximum torque 1.5 Nm (13.28 lb-in) Dinkle 0166-8002C (for 12 V), M5 screw in 2 positions, maximum torque 2.4 Nm (21.24 lb-in)
- Mating connector for J3 is either Molex, part number 51110-1450 (without locking ramp), or Molex part number 51110-1451 (with locking ramp). The connector is not shipped with the power supply unit.

**Pin Assignment**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>Neutral (+ (Plus))</td>
</tr>
<tr>
<td>+V</td>
<td>Main return</td>
</tr>
<tr>
<td>+5VSB</td>
<td>Main Output +</td>
</tr>
</tbody>
</table>

**AC/DC INPUT (J1)**

- No. | Designation |
- 1   | +5VSB |
- 2   | +5VSB |
- 3   | 5VSB_RTN |
- 4   | 5VSB_RTN |
- 5   | SCL |
- 6   | SDA |
- 7   | 5VSB_RTN |
- 8   | +5VSB |
- 9   | PWR_GOOD |
- 10  | Remote ON/OFF |
- 11  | Current_Share_V |
- 12  | Address |
- 13  | V_SENSE+ |
- 14  | V_SENSE- |

**MAIN DC OUTPUT (J2)**

- No. | Designation |
- 1   | Main DC Output |
- 2   | Main DC Output |
- 3   | Main DC Output |

**SIGNAL PORT AND AUXILIARY DC OUTPUT (J3)**

- No. | Designation |
- 1   | AC/DC Input |
- 2   | Signal port and Auxiliary DC Output |
- 3   | Main DC Output |
- 4   | LED |
- 5   | Output voltage potentiometer |
- 6   | Fan |

Delta Energy Systems (Germany) GmbH
Tschuellingstrasse 21
79331 Teningen/Germany
www.deltaenergysystems.com