MOUNTING ORIENTATIONS

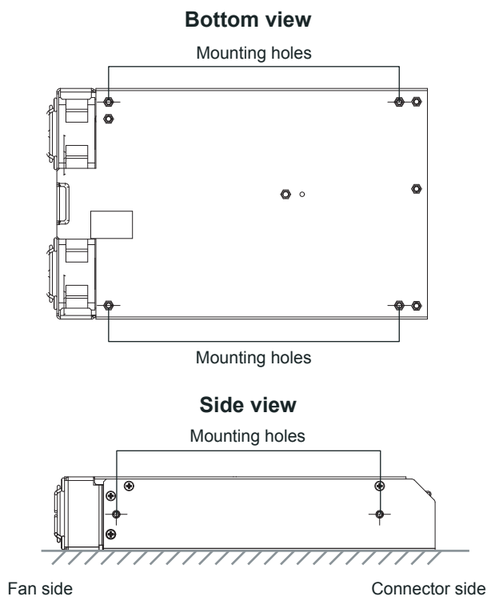

Fig. 3: Position of mounting holes

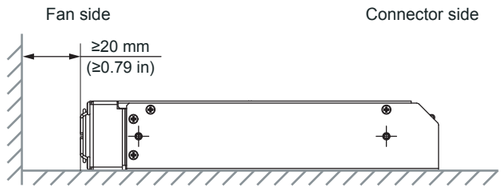

Fig. 4: Standard mounting orientation

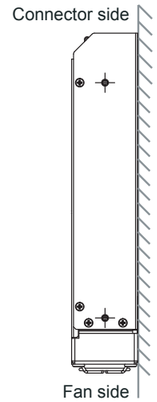

Fig. 5: Vertical mounting

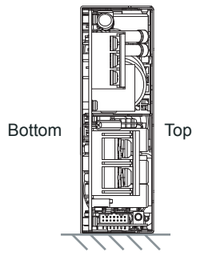

Fig. 6: Mounting on the right side

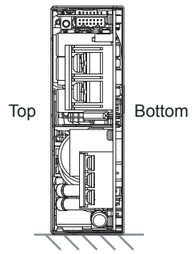

Fig. 7: Mounting on the left side

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.

MOUNTING EQUIPMENT

Use M3 screws with the appropriate length (see *Fig. 1)* through the base mounting holes. This is necessary to ensure a safety distance between the screw and internal components.

Recommended mounting tightening torque is 0.6 Nm (5.3 lb-in).

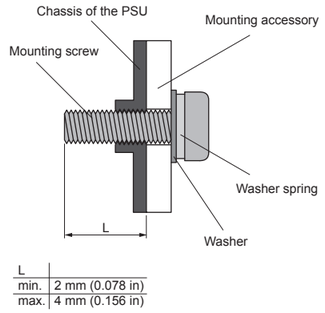

Fig. 1: Mounting the Power Supply Unit

AC/DC INPUT TERMINAL BLOCK (J1)

Use flexible cable

Wire range: 12-18 AWG

Maximum screw torque: 1.3 Nm (11.5 lb-in)

For insulation stripping and terminal lug, see *Fig. 2*.

Diameter of lug for input should be suitable for M3.5 screws.

DC OUTPUT TERMINAL BLOCK (J2)

Use flexible cable

Wire range: 4-12 AWG

Maximum screw torque: 1.3 Nm (11.5 lb-in)

For insulation stripping and terminal lug, see *Fig. 2*.

Diameter of lug for output should be suitable for screws according to the following table.

Power Supply Unit	Screw size
IMA-S400 12V / 24V / 48V	M4
IMA-S600 12V	M5
IMA-S600 24V / 48V	M4
IMA-S1000 12V / 24V / 48V	M5

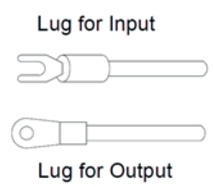

Fig. 2: Preparing cables for connecting

Power Supply Units

IMA-S400
IMA-S600
IMA-S1000

Installation manual

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.

DIMENSIONAL DRAWING IMA-S400-XX-XXXXX

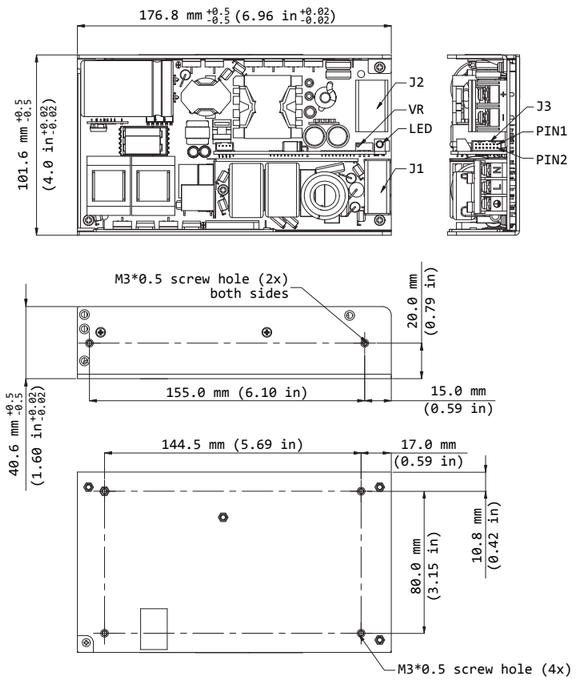

Fig. 8: Dimensional drawing IMA-S400-xx-xxxxx

- Base plate mounting, M3 thread holes, maximum penetration 4.0 mm (0.16 in) (from outside face of chassis), maximum torque 0.6 Nm (5.31 lb-in)
- (J1) Input terminal block, Switchlab T14-EMII03, M3.5 screw in 3 positions, maximum torque1.3 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-S400-XX-XXXXX

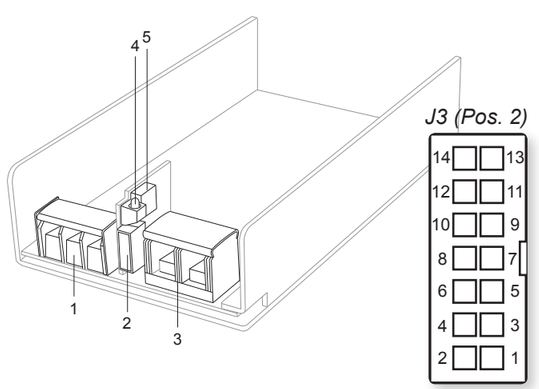

Fig. 9: Components of IMA-S400-xx-xxxxx

DIMENSIONAL DRAWING IMA-S600-XX-XXXXX

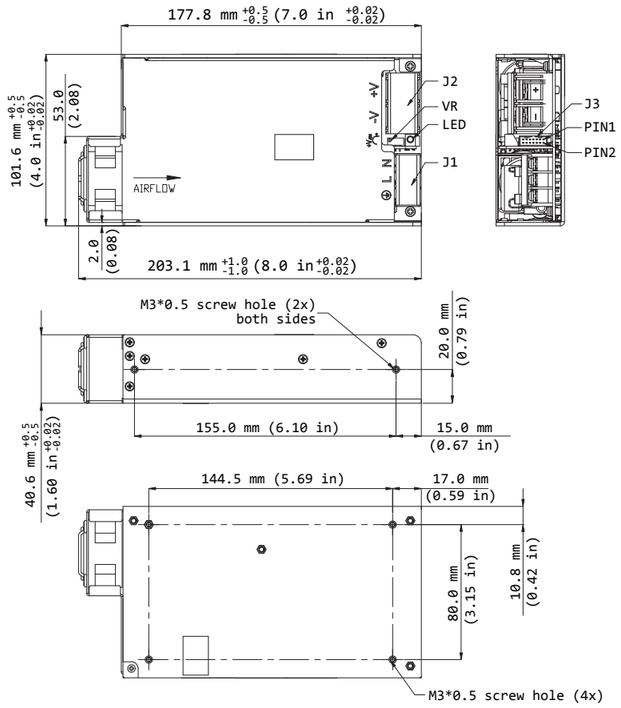

Fig. 10: Dimensional drawing IMA-S600-xx-xxxxx

- Base plate mounting, M3 thread holes, maximum penetration 4.0 mm (0.16 in) (from outside face of chassis), maximum 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

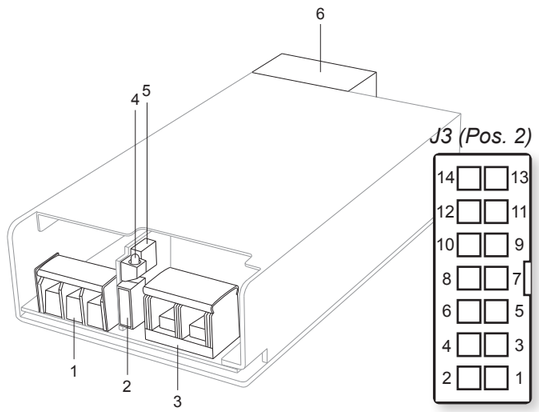

Fig. 11: Components of IMA-S600-xx-xxxxx

DIMENSIONAL DRAWING IMA-S1000-XX-XXXXX

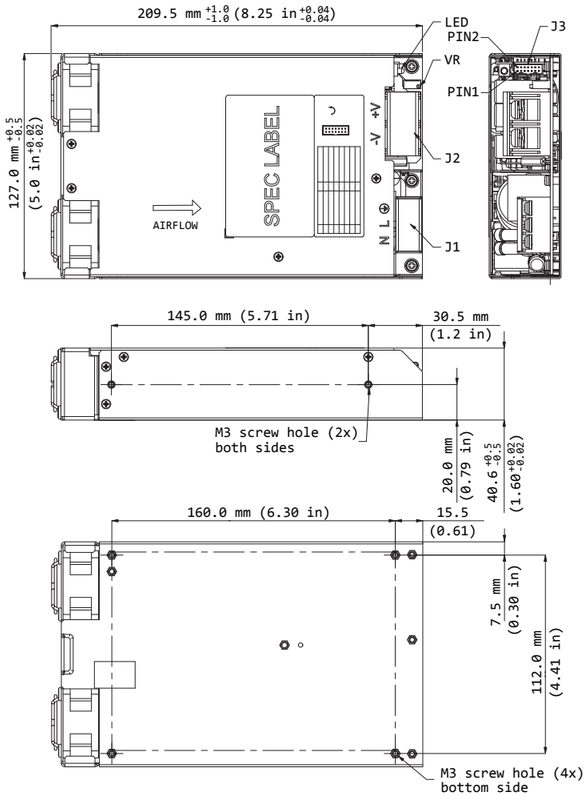

Fig. 12: Dimensional drawing IMA-S1000-xx-xxxxx

- Base plate mounting, M3 thread holes, maximum penetration 4.0 mm (0.16 in) (from outside face of chassis), torque 0.6 Nm
- (J1) Input terminal block, Switchlab T14-EMII03, M3.5 screw in 3 positions, torque 1.3 Nm
- (J2) Output terminal block, Dinkle 0166-8002C, M5 screw in 2 positions, torque 2.4 Nm
- 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. unit.

COMPONENTS IMA-S1000-XX-XXXXX

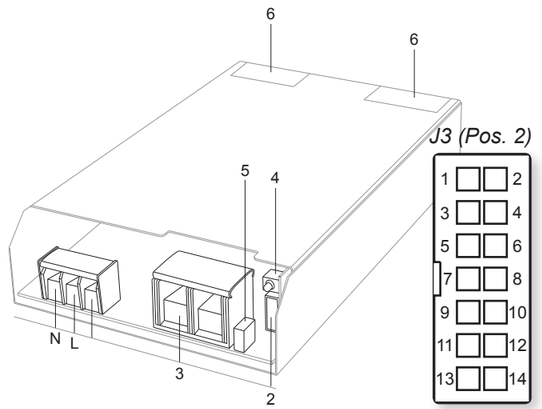

Fig. 13: Components of IMA-S1000-xx-xxxxx

PIN ASSIGNMENTS

AC/DC INPUT (J1)

Pin	Assignment	
	AC Input	DC Input
N	Neutral	+ (Plus)
L	Phase	- (Minus)
⏚	Ground/Earth	

MAIN DC OUTPUT (J2)

Pin	Assignment
-V	Main return
+V	Main Output +

SIGNAL PORT AND AUXILIARY DC OUTPUT (J3)

Pin	Assignment
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-

COMPONENTS

No.	Designation
	AC/DC Input
	Signal port and Auxiliary DC Output
	Main DC Output
	LED
	Output voltage potentiometer
	Fan

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