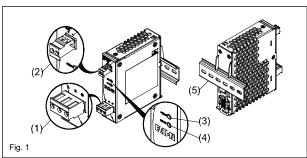
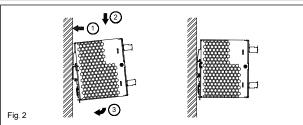


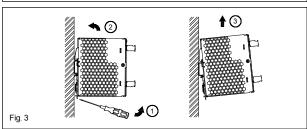
Installation Instructions for POWER SUPPLY UNIT (PSU)

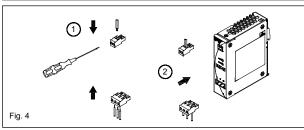
PSG60E24RM

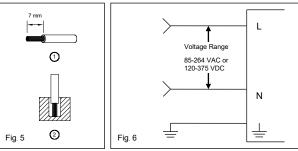
READ INSTRUCTIONS BEFORE INSTALLING OR OPERATING THIS DEVICE. KEEP FOR FUTURE REFERENCE.

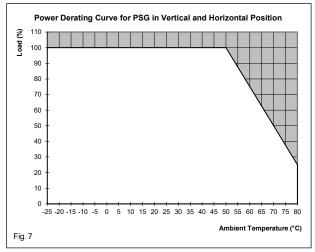












- Safety instructions
 Switch main power off before connecting or disconnecting the device. Risk of explosion!
 - To guarantee sufficient convection cooling, please keep a distance of 50 mm above and below the device as well as a lateral distance of 20 mm to other units.
 - Note that the enclosure of the device can become very hot depending on the ambient temperature and load of the power supply. Risk of burns!
 - Only plug in and unplug connectors when power is turned off!

 - Do not introduce any objects into the unit!

 Dangerous voltage present for at least 5 minutes after disconnecting all sources of power.
 - The power supplies are built-in units and must be installed in a cabinet or room (condensation free environment and indoor location) that is relatively free of conductive contaminants.

 - The unit must be installed in an IP54 enclosure or cabinet in the final installation.

 Warning: Explosion Hazard Substitution of components may impair suitability for Class I, Division 2.

 Warning: Explosion Hazard Do not disconnect equipment or adjust potentiometer unless the
 - power has been switched off or the area is known to be non-hazardous

CAUTION: "FOR USE IN A CONTROLLED ENVIRONMENT".

2. Device description (Fig. 1)

- (1) Input terminal block connector (2) Output terminal block connector
- (3) DC voltage adjustment potentiometer (4) DC OK control LED (green)
- (5) Universal mounting rail system

3. Mounting (Fig. 2)

The power supply unit can be mounting on 35 mm DIN rails in accordance with EN 60715. The device should be installed with input terminal block on the bottom.

Each device is delivered ready to install

- Snap on the DIN rail as shown in Fig. 2: 1. Tilt the unit slightly upwards and put it onto the DIN rail.

 - Push downwards until stopped.
 Press against the bottom front side for locking.
 - 4. Shake the unit slightly to ensure that it is secured.

4. Dismounting (Fig. 3)

To uninstall, pull or slide down the latch as shown in Fig. 3. Then, slide the PSU in the opposite direction, release the latch and pull out the PSU from the rail.

5. Connection

The terminal block connectors allow easy and fast wiring.
You can use flexible (stranded wire) or solid cables with cross section 0.52-3.3 mm² (AWG 20-12) and torque of 0.46 Nm (4.05 lb in). To secure reliable and shock proof connections, the stripping length should torque of 0.46 Nm (4.05 ib in). To secure reliable and shock proof connections, the stripping length should be 7 mm (see Fig. 5 (1)). Please ensure that wires are fully inserted into the connecting terminals as shown in Fig. 5 (2).

Caution: Must tighten wire to plug (Fig. 4 (1)) before plugging into the terminal block connection (Fig. 4 (2)). In accordance to EN 60950 and EN 62368, flexible cables require ferrules.

Use appropriate copper cables that are designed to sustain operating temperature of 60°C / 75°C or more to fulfill. It provisioned

to fulfill UL requirements.

5.1. Input connection (Fig. 1 (1), Fig. 6)

For AC input connections, use L, N and PE connections of input terminal connector (see Fig. 1 (1)) to establish the 100-240 VAC connection.

For DC input connections, connect L pin to + from DC source and connect N pin to - from DC source. The unit is protected with internal fuse (not replaceable) at L pin and it has been tested and approved on 20A (UL) and 16A (IEC) branch circuits without additional protection device. An external protection device is only required if the supplying branch has an ampacity greater than above. Thus, if an external protective device is necessary, or, utilized, a minimum value of 8A B- or 4A C- characteristic breaker should be used.



The internal fuse must not be replaced by the user.

Use the "+" and "-" screw connections to establish the 24 VDC connection. The output provides 24 VDC. The output voltage can be adjusted from 24 to 28 VDC on the potentiometer (see Fig. 1 (3)). The green LED DC OK displays correct function of the output (Fig. 1 (4)). The device has a short circuit and overload protection and an overvoltage protection limited to 35 VDC.

The device functions normal under operating line and load conditions. In the event of a short circuit or overload the output voltage and current collapses (I_{OL} or I_{S/C} is >I_{surge} (150%)). The secondary voltage is reduced and bounces until short circuit or overload on the secondary side has been removed.

5.4. Thermal behavior (Fig. 7).

In the case of ambient temperatures above +50 $^{\circ}$ C, the output capacity has to be reduced by 2.5% per degree Celsius increase in temperature. If the output capacity is not reduced when T_{Amb} > 50 $^{\circ}$ C, the device will run into thermal protection by switching off i.e. device will go in bouncing mode and will recover when ambient temperature is lowered or load is reduced as far as necessary to keep device in working condition.

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TECHNICAL DATA FOR PSG60E24RM



Safety class

Powering Business Worldwide

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Class I with PE connection

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