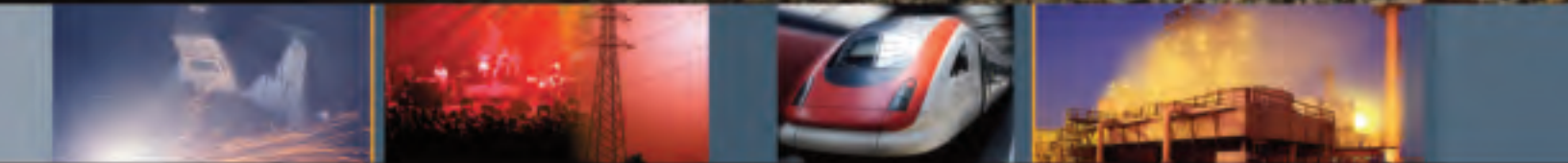




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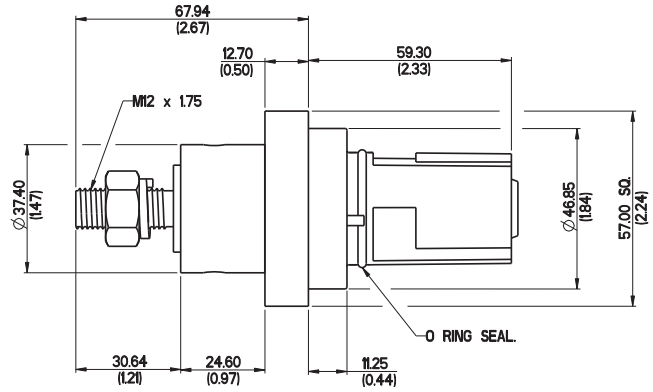
Interconnect Solutions
Cannon, VEAM, BIW

Serving **uninterrupted**
power in the world's
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Engineered for life

PowerLock Panel Drain

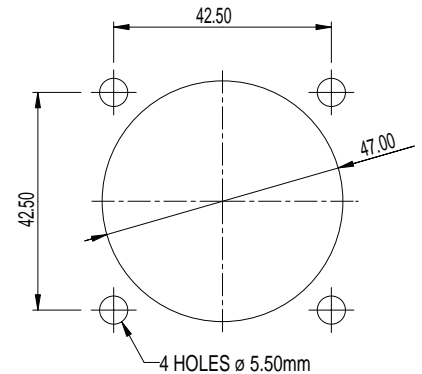


Panel Drain connectors are supplied fully assembled with the female contact having an M12 threaded post, with nut and spring washer for connection to a standard cable lug. These connectors rated either 400 amp (T4) or 660 amp (T6). This connector is fitted with the secondary locking pin for secure connections, see explanation on Line Drain page M-4.

The standard connector is mounted to a panel through 4 fixing holes on the flange, panel cut-out details are shown on the right. As an alternative, the flange holes can be pre-fitted with M6 threaded inserts for either front or rear fixing, add suffix M6F for front fitting or M6R for rear fitting (rear mounting may obscure the product label).

Neoprene Gaskets to seal the flange against a panel are available to order separately, order part number A2499001150.

If required, the connector can also be supplied without a flange (special option suffix – NF).



Panel Cutout



Gasket



Threaded Insert

Ordering information – see page M-2 for full details of the options available

NPDFT – **X** – **XX** – **L** – **XX** – **XXX**

Example part number:
NP DFT-3-BL-L-T6

Line & Color

Contact

Special Options

- M6F M6 threaded insert front mounting
- M6R M6 threaded insert rear mounting
- NF No Flange

Panel connectors can also be supplied with an un-assembled crimp or Set-Screw contact. In this case the contact is fitted to the cable, and must be assembled to the insulator body before the fully assembled connector is fitted to the panel. This is a non-standard option, please contact your supplier for further information



Dimensions shown in inches (mm)
Specifications and dimensions subject to change

www.ittcannon.com

VEAM Powerlock





A PowerLock Box is a 3 phase high power connecting unit, used as a termination point for power cables. The boxes include a number of safety features to prevent incorrect connection and disconnection. All PowerLock devices are 'keyed' to eliminate the possibility of connecting with the wrong line, and colour coded to suit international 3 phase standards.

Anywhere that you are unable to rely on a public utility power source, a PowerLock Box can provide a connection point for a mobile generator, into your low voltage (1500 volt DC) network.

Features and Benefits

- Connect with standard 'Powerlock' connectors
- Sequential connecting ensures Ground/Earth is connected first
- 400 amp & 660 amp continuous current options
- Color coded to suit European, North American, and Australian 3 phase standards
- Source and Drain (Power out or Power in) options
- All ports 'keyed' to prevent incorrect connection
- Sealed Security lid optional
- IP2X Finger protected
- Lock to prevent interference
- 19" x 2U rack mounting or flange mount
- Environmentally sealed connector ports to protection level IP65

Typical Applications

- Mobile Generators
- Power for field camps
- Hospitals
- Outdoor events
- Welding equipment
- Barrack blocks
- Dockside power plant
- Data and Intelligence centers

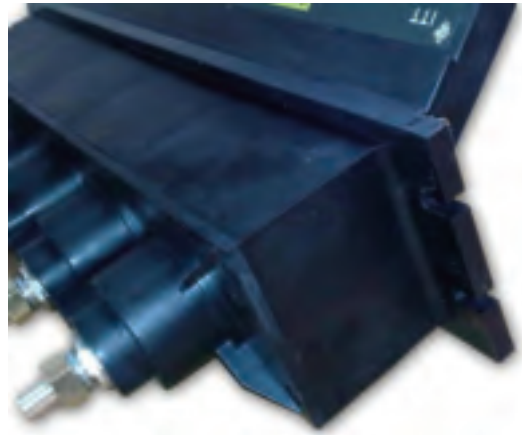


- Bring in a generator during an emergency, connect to a PowerLock Box, and you are quickly up and running again
- Whenever you need a flexible source of low voltage power, with a PowerLock Box installed, you have a safe and secure connection point.

PowerLock Sequential Connecting Box

Mounting Options

The PowerLock Box is designed for mounting to 19" racks or to a panel cut out. For 19" rack mounting the unit is supplied to fit a 2U spacing, and where an overlap is required for fitting to a panel cut out, the PowerLock Box can be supplied with a flange, making the overall height 107mm. The rear view of a flanged version is shown (right).



Operation of the PowerLock Box

Each connector port has an M12 threaded post with nut and spring washer on the rear for the fixed cabling of the PowerLock Box. In addition there is a 2 pole connector on the rear of the box, connected to a micro-switch that is activated once all cable connectors are inserted into the PowerLock Box. The box is then operated as follows:

- For a box fitted with a sealed lid, first unlock the lid using the key provided, for the un-lidded go straight to the next step
- Insert the Ground/Earth connector into the green port on the left and turn 45° to the right to lock
- Insert in sequence, from left to right, the Neutral followed by the 3 phases
- Once the Line 3 connector is in place, using the key provided, lock the box as indicated on the front panel
- The box is now connected and ready to be powered up

Never attempt to uncouple the connectors while under load.



PowerLock Sequential Connecting Box

Ordering Information

PBX—XX—XX—XX—XXX

Box type

- SL = Sealed Lid
- SLF = Sealed Lid with Flange
- NL = No Lid
- NLF = No Lid with Flange

Contact type

- PS = Source
- PD = Drain

Regional color code

- EU = Europe
- US = North American
- AU = Australia

Power rating

- 400 = 400 amp
- 660 = 660 amp

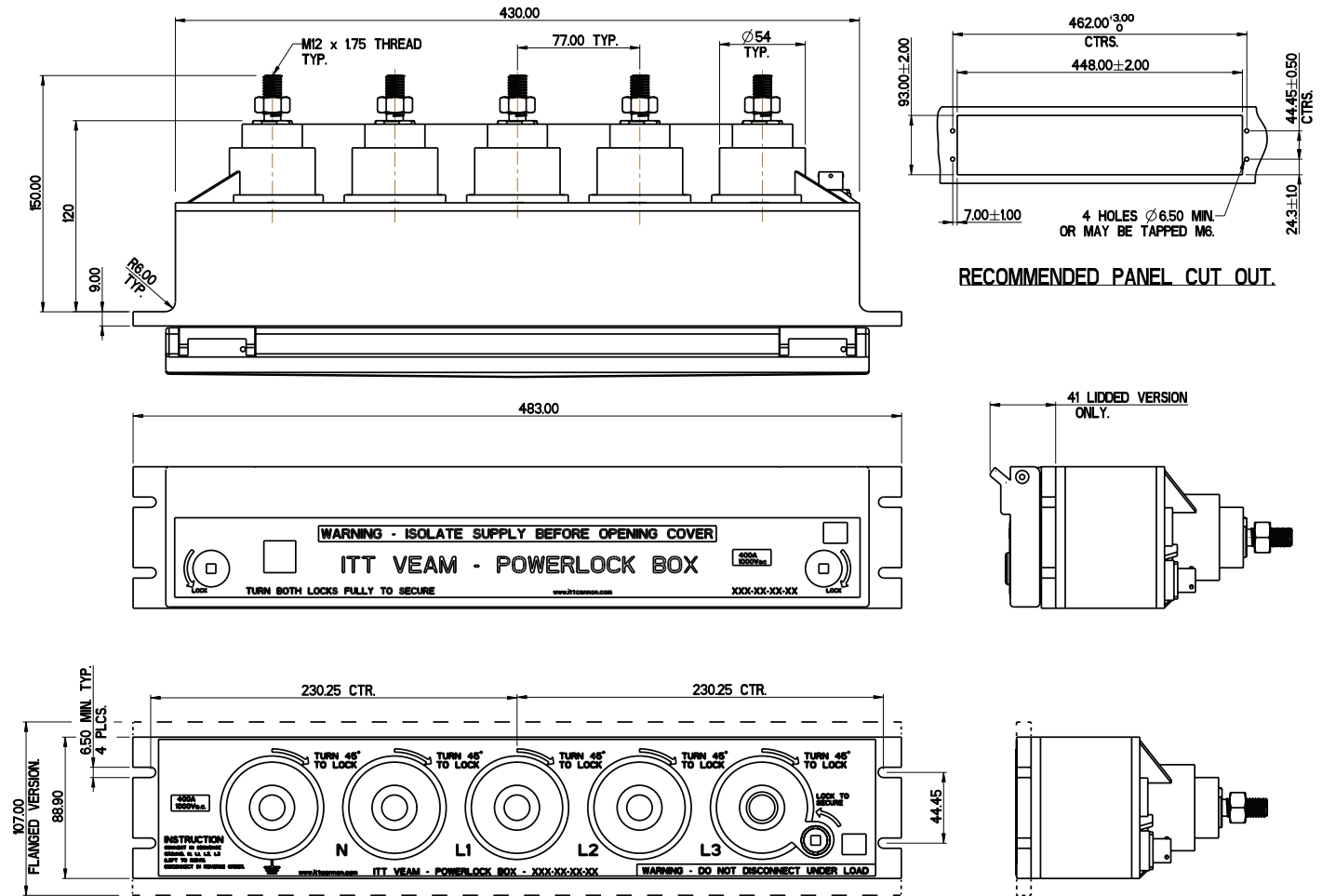
Example

A 660 amp box with a sealed lid and Drain contacts with European color coding is:

PBX-SL-PD-EU-660

Technical Overview

The PowerLock Box is designed for use in high current applications and offers many safety and security benefits when compared with a set of individual connectors.



Performance

Current rating	400 amp or 660 amp continuous
Voltage rating	1000V AC / 1500V DC
Contact material	Brass (400 amp) or high conductivity Copper (660 amp), silver plated
Housing material	High temperature thermoplastic
Endurance	500 connection cycles
Environmental protection of connector ports	Un-lidded version IP65 when connectors are fitted Lidded version IP65 with lid locked or when connectors are fitted
Electrical protection	IP2X (finger safe)
Flammability rating	UL94-V0
Operating temperature	-30°C to +85°C
Color coding	European, North American & Australian 3 phase colour coding
RoHS & WEEE	Compliant
Safety notice	The PowerLock Box should only be installed and operated by suitably qualified persons

