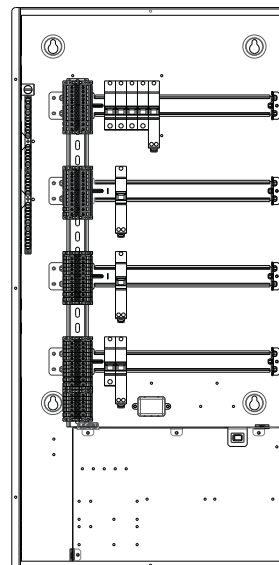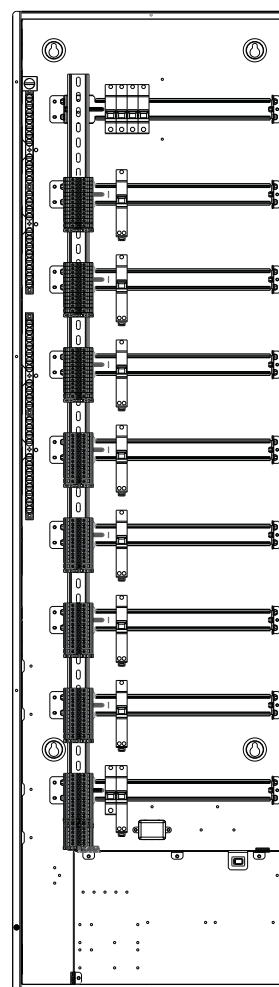# DIN Panels and Accessories

The Lutron® family of DIN rail panels are designed to accept the Lutron® DIN power modules (DPMs). The DPMs can be configured in the panel to control multiple load types that fit the size, lighting plan and design of a home. The control panels have a control gear compartment that can house up to 2 processors, DMX and/or IO interfaces, 2 Wire Landing Boards (WLB), and 1 power supply. The satellite panels replace the control gear compartment with a mounting bracket to add an additional DPM. Panels may be either surface-mounted or recess-mounted in an electrical closet or other equipment room. There are feed-through, MCB and RCBO breaker options available for each panel size and type. For each DPM type, there is a terminal kit available as well as a wiring harness. There is also a QS harness for wiring from DPM to DPM. Other options include blanking plates for unused module positions and a reversible hinged door.

### Features

- Panels house LQSE DIN power modules (DPMs)
  - LQSE-4A-D
  - LQSE-4S10-D
  - LQSE-4T10-D
  - LQSE-4M-D
  - LQSE-2ECO-D
  - LQSE-2DAL-D
- Control panels support
  - HQP6-2 (HomeWorks® QS Processor)
  - QSE-IO
  - QSE-CI-DMX
  - QS-WLB
  - QSE-CI-NWK-E
  - QSPS-DH-1-60
- Feed-through, MCB and RCBO breaker panels available.
- Panels extensively tested to ensure optimal thermal performance with maximum load in 0 °C to 40 °C (32 °F to 104 °F) ambient environment.
- Schneider Electric® commercial grade breakers.
- Panels with breakers include a main isolation (ISO) switch.
- Panels with breakers include pre-installed and verified wiring from an ISO switch to breakers.
- Bypass jumpers included for miswire protection.
- Panels are rated for 220–240 V~ CE and non-CE applications.
- Integral manual override switch turns all lights on to the programmed override level when activated.
- Panels are available in two sizes: 1 613 mm (63.50 in) and 921 mm (36.28 in).
- Reversible hinged door option available.
- Terminal Block kits available for each DPM type.
- Pre-assembled wiring harnesses available for each DPM type.
- Pre-assembled wiring harness available for QS link from DPM to DPM.
- Additional live and neutral feeds provided to add breakers in the field for LQSE-2ECO-D and LQSE-2DAL-D modules.

PD4-36-RU10-2L4

PD8-64-RU10-2L4

# DIN Panels and Accessories

## Specifications

| | |
|---|---|
| **Model Numbers** | PD10-64-F; PD10-64-BU10-2L4; PD10-64-RU10-2L4; PD10-64-BU10-2L2; PD10-64-RU10-2L2; <br> PD9-64-F; PD9-64-BU10-2L4; PD9-64-RU10-2L4; PD9-64-BU10-2L2; PD9-64-RU10-2L2; <br> PD8-64-F; PD8-64-BU10-2L4; PD8-64-RU10-2L4; PD8-64-BU10-2L2; PD8-64-RU10-2L2; <br> PD5-36-F; PD5-36-BU10-2L4; PD5-36-RU10-2L4; PD5-64-BU10-2L2; PD5-64-RU10-2L2; <br> PD4-36-F; PD4-36-BU10-2L4; PD4-36-RU10-2L4; PD4-64-BU10-2L2; PD4-64-RU10-2L2 |
| **Power** | Feed-through: 220-240 V∼ ; 50/60 Hz; 10 A per input maximum. Breaker and RCBO (3 phase 4-wire feed): 220-240 V∼ ; 125 A input <br> Breaker and Feed-through (1 phase, 2-wire feed): 220-240 V∼ ; 63 A |
| **Capacity** | **PD4-36:** Four DPMs* in any combination, two Wire Landing Boards (WLB), one power supply unit and two Interface boxes or processors. The top position supports LQSE-4S10-D module only in MCB and RCBO breaker panels. <br> **PD5-36:** Five DPMs* in any combination, two Wire Landing Boards (WLB). The top position supports LQSE-4S10-D module only in MCB and RCBO breaker panels. <br><br> **PD8-64:** Eight DPMs* in any combination, two Wire Landing Boards (WLB), one power supply unit and two Interface boxes or processors. <br><br> **PD9-64:** Nine DPMs* in any combination, two Wire Landing Boards (WLB), one power supply unit and two Interface boxes or processors. The top position supports LQSE-4S10-D module only in MCB and RCBO breaker panels. <br> **PD10-64:** Ten DPMs* in any combination, two Wire Landing Boards (WLB). The top position supports LQSE-4S10-D module only in MCB and RCBO breaker panels. <br><br> **80 A of dimming current maximum in PD9 and PD10 panels.** |
| **Regulatory Approvals** | CE |
| **Environment** | Ambient operating temperature: 0 °C to 40 °C (32 °F to 104 °F), 0 to 90% humidity, non-condensing. Indoor use only. Door is required if LQSE-4A-D module is used and calibration point exceeds 70 °C (158 °F). See optional accessories for door models. |
| **Cooling** | Passive cooling |
| **Line-Voltage Connections** | Use copper wire only. In a feed-through panel, DIN rail-mounted terminal blocks are provided for line-voltage to DPM, and power supply wiring (if applicable). In a panel with breakers, ISO switch is provided for line voltage to MCB or RCBO breakers to power the DPM. |
| **DIN Rail Terminal Blocks** | Terminal blocks will accept one 0.75 mm$^2$ to 6.0 mm$^2$ (18 AWG to 10 AWG) wire or two 0.75 mm$^2$ to 1.5 mm$^2$ (18 AWG to 14 AWG) wires. Terminal blocks should be tightened to 0.60 N•m to 0.8 N•m (5.3 in-lb to 7.1 in-lb). |
| **ISO Switch** | 3 phase 4-wire ISO switch will accept one 2.5 mm$^2$ to 35 mm$^2$ (14 AWG to 2 AWG) wire. Terminals should be tightened to 3.5 N•m (31 in-lb); 1 phase 2-wire ISO switch will accept one 2.5 mm$^2$ to 35 mm$^2$ (14 AWG to 2 AWG) wire. Terminals should be tightened to 3.5 N•m (31 in-lb). |

\* 220-240 V∼  LQSE-4A-D, LQSE-4S10-D, LQSE-4T10-D, LQSE-4M-D, LQSE-2ECO-D, LQSE-2DAL-D. Use of non-Lutron® equipment in the panel voids the warranty.
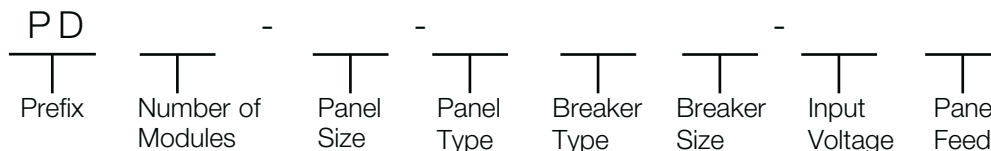
# DIN Panels and Accessories

## Specifications *(continued)*

| | |
|---|---|
| **Ground Bar Terminals** | **PD4 and PD5:** 25 ground termination points<br>**PD8, PD9, and PD10:** 50 ground termination points |
| **Miswire Protection** | All terminal blocks are shipped with bypass jumpers installed. After verifying that each circuit is wired correctly, remove the bypass jumpers for system operation. |
| **Dimensions** | **PD4 and PD5: Panel:** 455 mm x 921 mm x 107 mm (17.93 in x 36.28 in x 4.21 in)<br>       **Cover:** 467 mm x 921 mm (18.38 in x 36.28 in)<br>       **Cover Thickness:** 1.5 mm (0.060 in)<br><br>**PD8, PD9, and PD10: Panel:** 455 mm x 1 613 mm x 107 mm<br>       (17.93 in x 63.50 in x 4.21 in)<br>       **Cover:** 467 mm x 1 613 mm (18.38 in x 63.50 in)<br>       **Cover Thickness:** 1.5 mm (0.060 in)<br><br>**PD-36-DOOR:** 485 mm x 931 mm x 40 mm (19.09 in x 36.66 in x 1.56 in)<br><br>**PD-64-DOOR:** 485 mm x 1 613 mm x 40 mm (19.09 in x 63.88 in x 1.56 in) |
| **EcoSystem® and DALI feeds** | **PD4-36:** 1 position pre-wired to install a second MCB and RCBO breaker for LQSE-2ECO-D and LQSE-2DAL-D.<br><br>**PD5-36:** 4 positions pre-wired to install a second MCB or RCBO breaker for LQSE-2ECO-D and LQSE-2DAL-D.<br><br>**PD8-64, PD9-64, and PD10-64:** 3 positions pre-wired to install a second MCB or RCBO breaker for LQSE-2ECO-D and LQSE-2DAL-D. |
| **Mounting** | Install and wire in accordance with all local and national codes. Panel may be surface-mounted or recess-mounted. Mount the panel so that line-voltage wiring will be at least 1 830 mm (72 in) from audio or electronic equipment and wiring. Mount panel using one of the following methods (mounting hardware is not provided):<br>**a. Surface-Mount:** Use keyholes with bolts sufficient for 50 kg (110 lb) load,<br>   M6 bolts recommended.<br>**b. Recess-Mount:** Use screws sufficient for 50 kg (110 lb) through the corners of<br>   the Control Panel. Control Panel is 104 mm (4.1 in) deep past cover mounting tabs<br>   (including pedestal).<br>**NOTICE:** This equipment is air-cooled. Mount in a location where the vented cover will not be blocked. 305 mm (12 in) of clearance in front of the vents is required.<br>**NOTICE:** Power supply will hum slightly and internal relays will click while in use. Mount in a location where such noise is acceptable.<br>**NOTICE:** Limit vertical stacking of PD4 and PD5 panels to 2 high. Do not vertically stack PD8 or PD9 panels. |
| **Construction** | **Control Panel:** 16-gauge galvanized sheet metal (unpainted).<br>**Cover:** Coated metal cover with ventilation holes. Cover is attached using phillips-head screws (included) |
| **Warranty** | www.lutron.com/TechnicalDocumentLibrary/Intl_Warranty.pdf |

# DIN Panels and Accessories

## Model Number Example

```
P D        -        -                        -
```

| Prefix | Number of Modules | Panel Size | Panel Type | Breaker Type | Breaker Size | Input Voltage | Panel Feed |

### Number of Modules:

**4** = 4 Modules [control panel]
**5** = 5 Modules [satellite panel]
**8** = 8 Modules [control panel]
**9** = 9 Modules [control panel
**10** = 10 Modules [satellite panel]

### Panel Size:

**36** = 921 mm (36.3 in) Enclosure (PD4, PD5)
**64** = 1 613 mm (63.5 in) Enclosure (PD8, PD9, PD10)

### Panel Type:

**F** = Feed-through
**B** = MCB Input Breaker
**R** = RCBO Input Breaker

### Breaker Type Country Code:

**U** = United Kingdom
(blank) = Feed-through

### Breaker Size:

**10** = 10 A
(blank) = Feed-through

### Input Voltage:

**2** = 220–240 V∼
(blank) = Feed-through

### Panel Feed:

**L2** = 1 Phase 2-Wire Feed (63 A per input)
**L4** = 3 Phase 4-Wire Feed (125 A per input)
(blank) = Feed-through

### Example: PD8-64-RU10-2L4

8 module 1 613 mm (63.5 in) panel with 10 A RCBO breakers for United Kingdom and 230 V∼ 3 phase 4-wire feed
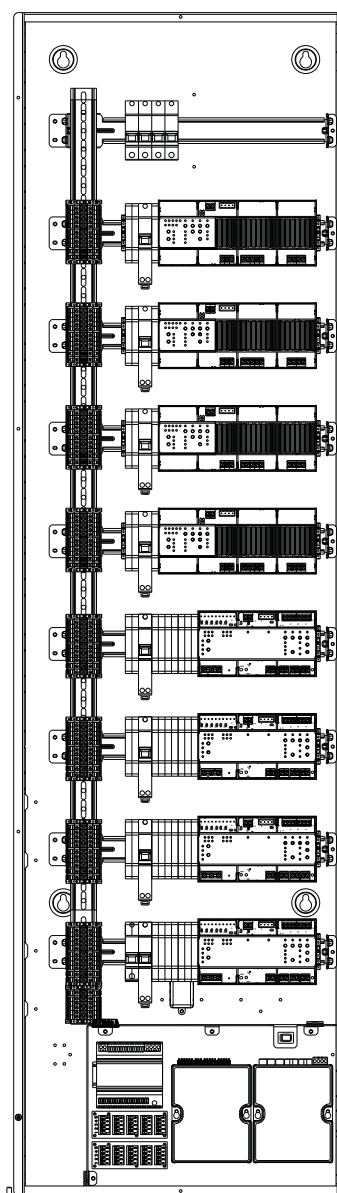


PD8-64-RU10-2L4 Shown with components.
Components sold separately.

# DIN Panels and Accessories

## Optional Accessories

| Wiring Harnesses | |
|---|---|
| PDW-D-1 | Wiring Harness for Dimming Power Module |
| PDW-S-1 | Wiring Harness for Switching Power Module |
| PDW-T-1 | Wiring Harness for 0-10 V Power Module |
| PDW-M-1 | Wiring Harness for Motor Control Power Module |
| PDW-ED-1 | Wiring Harness for EcoSystem® or DALI Power Module |
| PDW-QS-4 | QS Link Wiring Harness for 4 Power Modules (PD4 panels) |
| PDW-QS-5 | QS Link Wiring Harness for 5 Power Modules (PD5 panels) |
| PDW-QS-8 | QS Link Wiring Harness for 8 Power Modules (PD8 panels) |
| PDW-QS-9 | QS Link Wiring Harness for 9 Power Modules (PD9 panels) |
| PDW-QS-10 | QS Link Wiring Harness for 10 Power Modules (PD10 panels) |
| **Terminal Block Kits** | |
| PDT-DS-1 | Terminal Kit for Dimming or Switching Power Module |
| PDT-T-1 | Terminal Kit for 0-10 V Power Module |
| PDT-M-1 | Terminal Kit for Motor Control DIN Power Module |
| PDT-ED-1 | Terminal Kit for EcoSystem® or DALI Power Module |
| **Doors** | |
| PD-36-DOOR | Reversible Hinged Door for 921 mm (36.28 in) DIN Panels |
| PD-64-DOOR | Reversible Hinged Door for 1 613 mm (63.50 in) DIN Panels |
| **Blanks/Fillers** | |
| PD-BLANK-1 | DIN Panel Blanking Plate: 1 piece |
| PD-BLANK-5 | DIN Panel Blanking Plate: 5 pieces |

# DIN Panels and Accessories

## Panel Door Dimensions

1 613 mm (63.5 in) panel with optional mounting door. Door can be hung as swing-left or swing-right.

485 mm (19.1 in)

144 mm
(5.7 in)
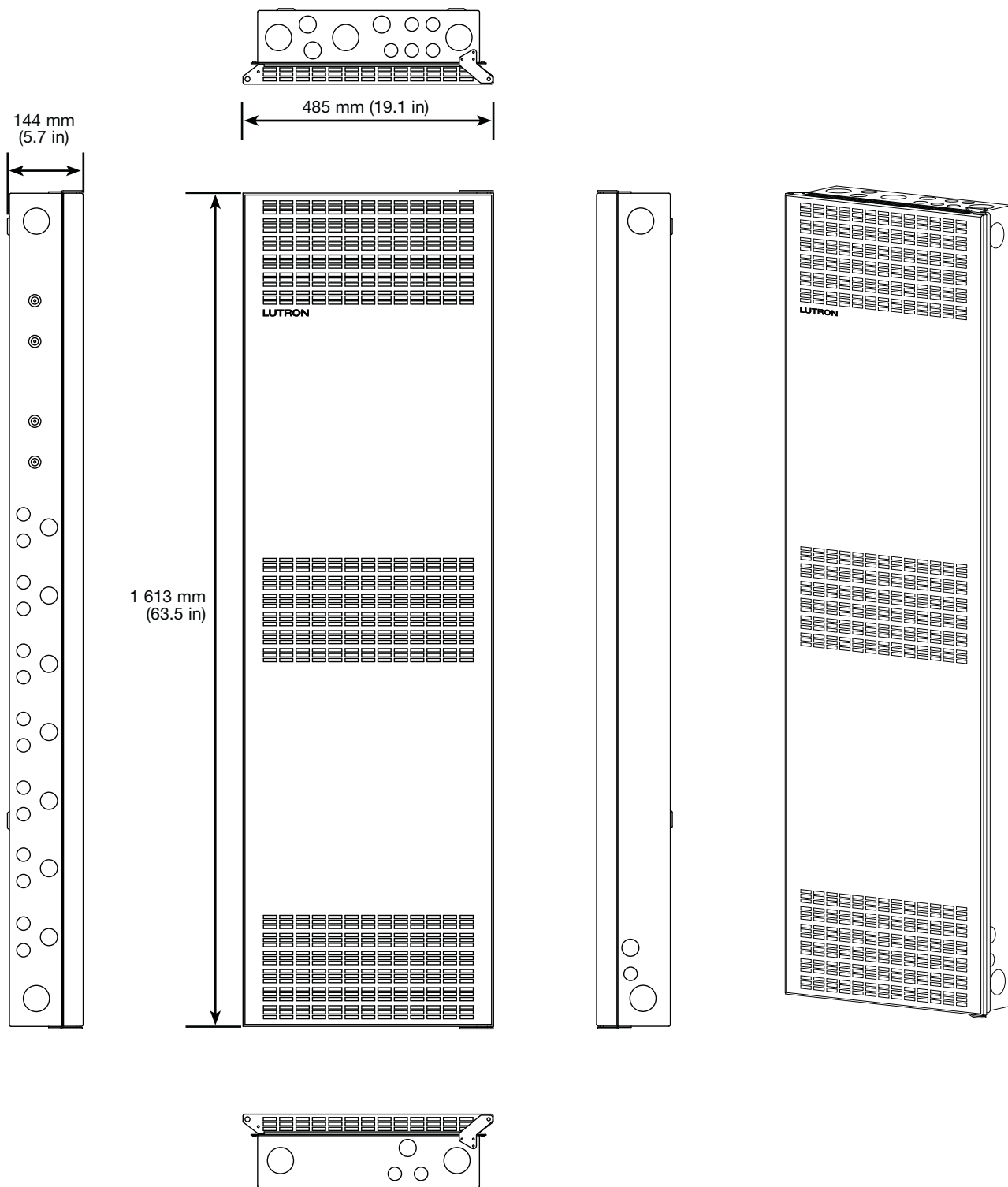
1 613 mm
(63.5 in)

# DIN Panels and Accessories

## Panel Door Dimensions

921 mm (36.3 in) panel with optional mounting door. Door can be hung as swing-left or swing-right.

485 mm (19.1 in)

144 mm
(5.7 in)

931 mm
(36.7 in)
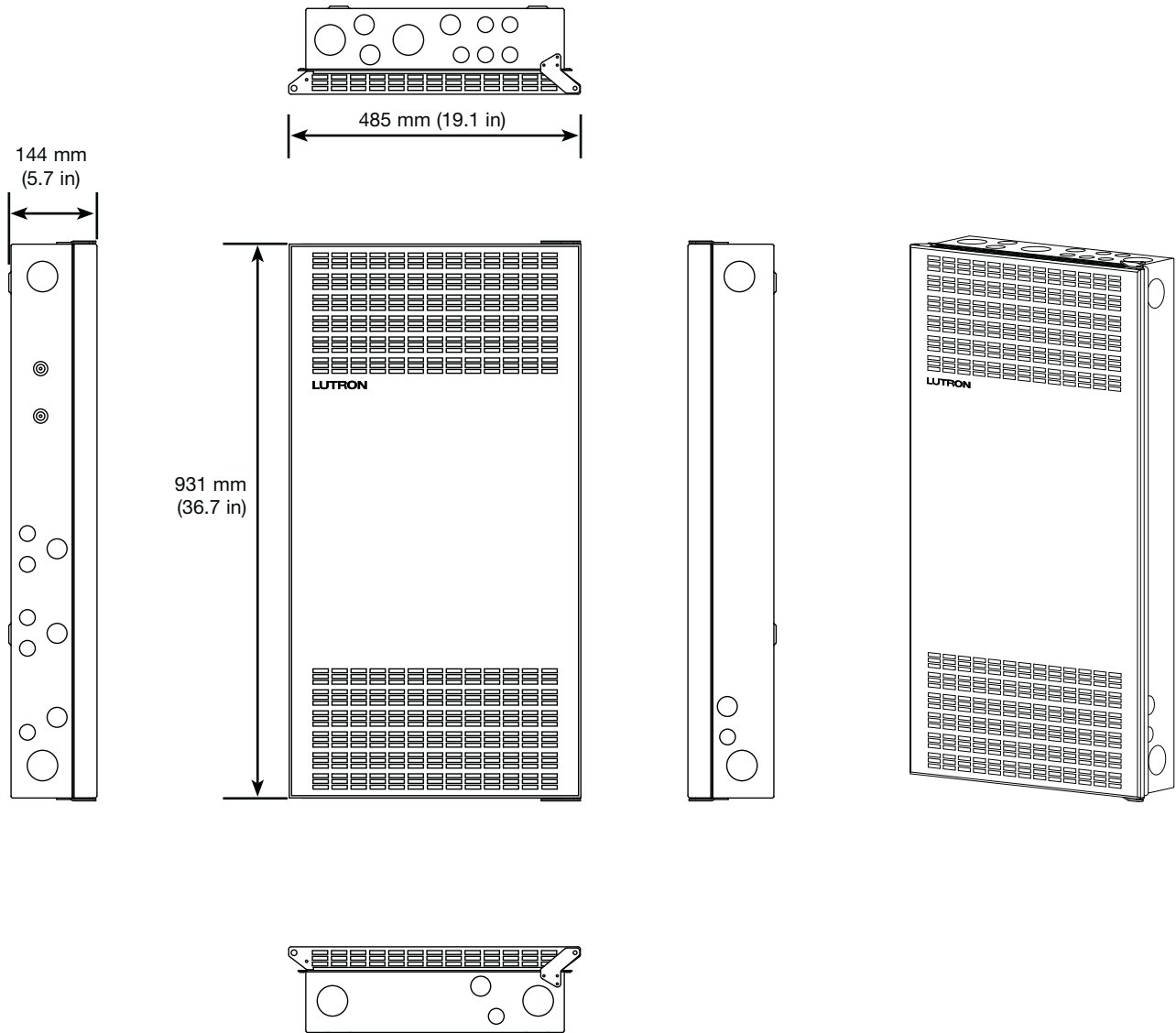
# DIN Panels and Accessories

## Panel Door Views

Optional door available for 1 613 mm (63.5 in) and 921 mm (36.3 in) panels.
921 mm (36.3 in) panel shown.
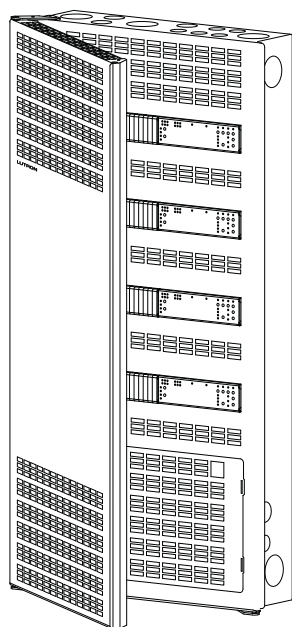
Swing-Left                                          Swing-Right
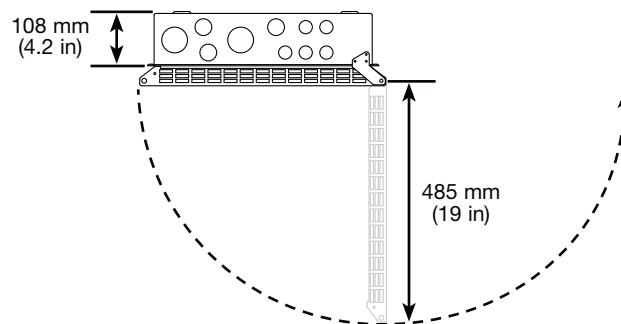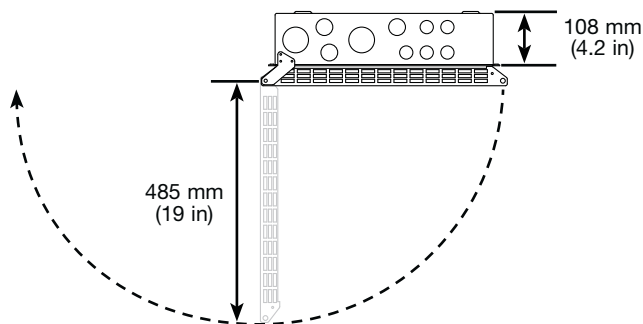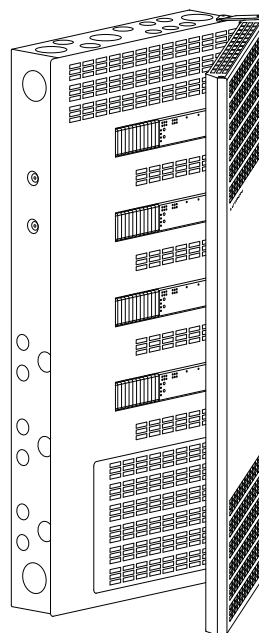
Optional panel door kit includes hinges and mounting hardware that can be configured to swing-left or right. Allow 508 mm (20 in) for swing clearance. Doors have a black, powder-coated finish. Kit can be installed after panel installation, but requires removal and reinstallation of the deadfront (flat cover). Standard door has a magnetic catch.

Panel Door Models:
– PD-64-DOOR
– PD-36-DOOR

# DIN Panels and Accessories
## Dimensions and Mounting (PD4-36 models):

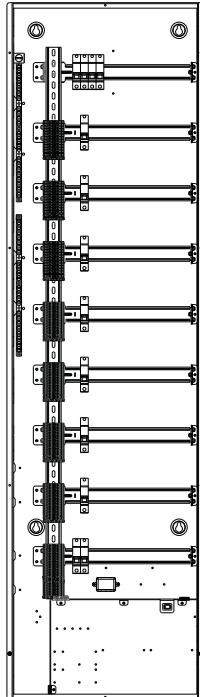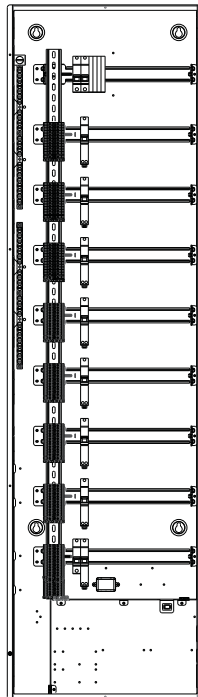All PD4-36 models use the same enclosure. All measurements shown as: mm (in)



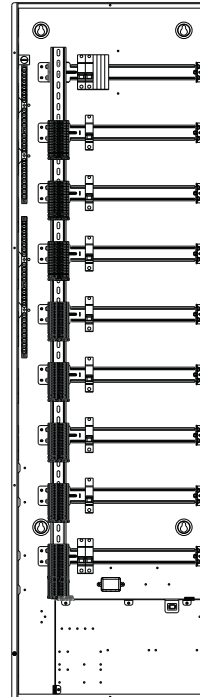PD4-36-F

UP

-7°    +7°

Mount Panel
Vertically
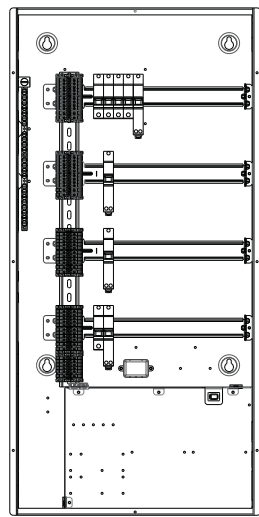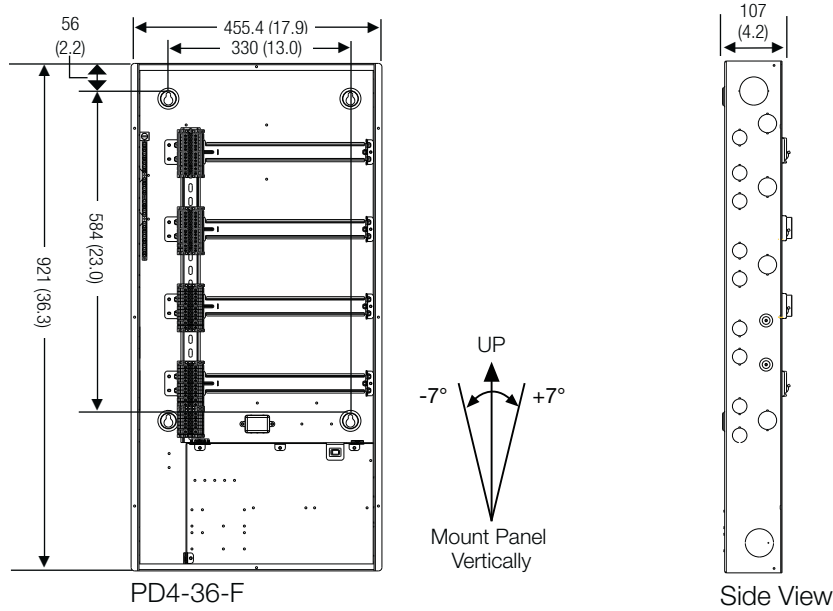
Side View
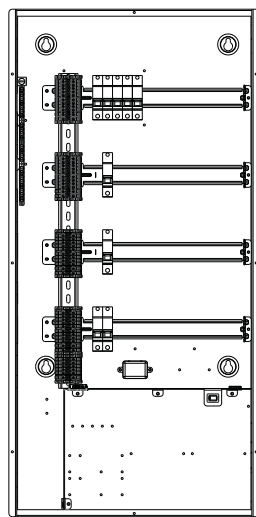


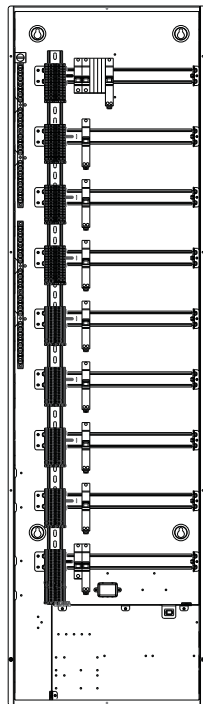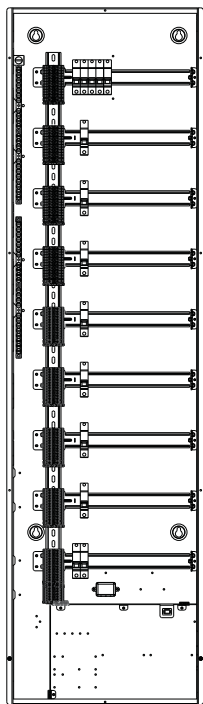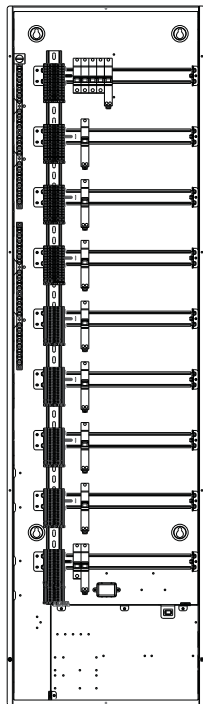PD4-36-RU10-2L4          PD4-36-BU10-2L4          PD4-36-RU10-2L2          PD4-36-BU10-2L2
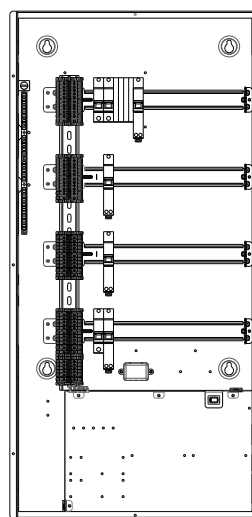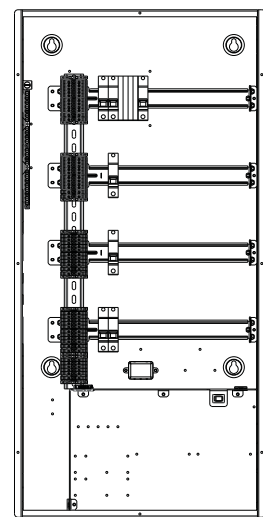
# DIN Panels and Accessories
## Dimensions and Mounting (PD5-36 models):

All PD5-36 models use the same enclosure. All measurements shown as: mm (in)



PD5-36-F

Side View

UP

-7°  +7°

Mount Panel
Vertically
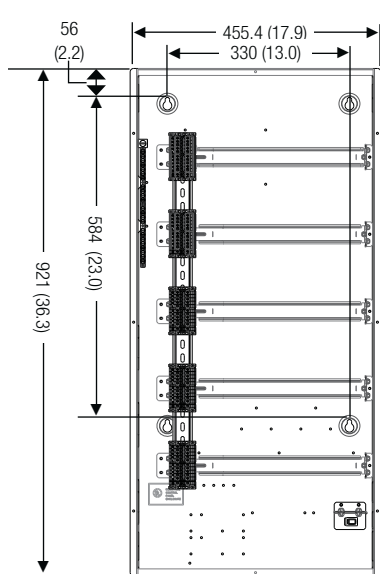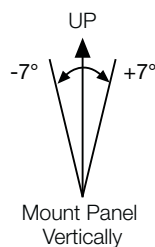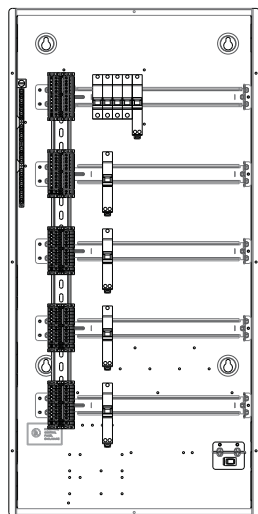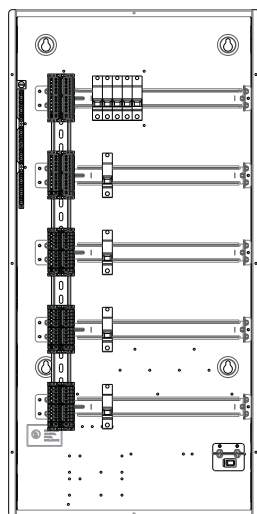


PD5-36-RU10-2L4
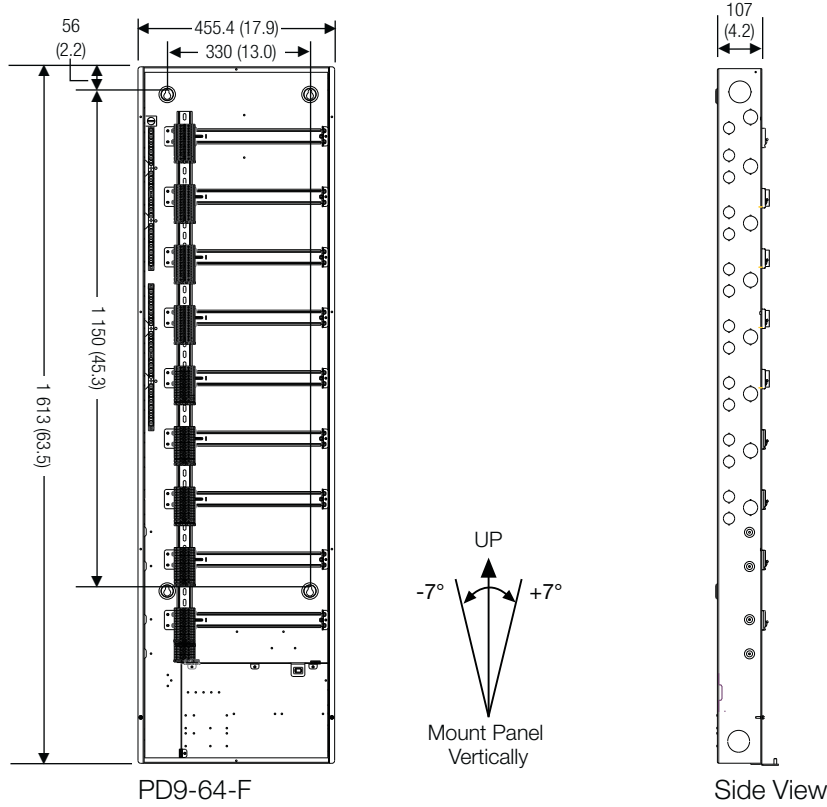


PD5-36-BU10-2L4
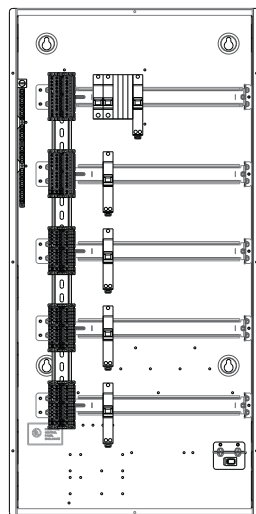


PD5-36-RU10-2L2
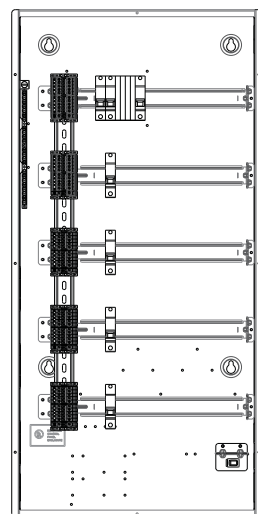


PD5-36-BU10-2L2

# DIN Panels and Accessories
## Dimensions and Mounting (PD8-64 models):

All PD8-64 models use the same enclosure. All measurements shown as: mm (in)

56 (2.2)   455.4 (17.9)   330.6 (13.0)

1 150 (45.3)

1 613 (63.5)

107 (4.2)

UP

-7°      +7°

Mount Panel
Vertically
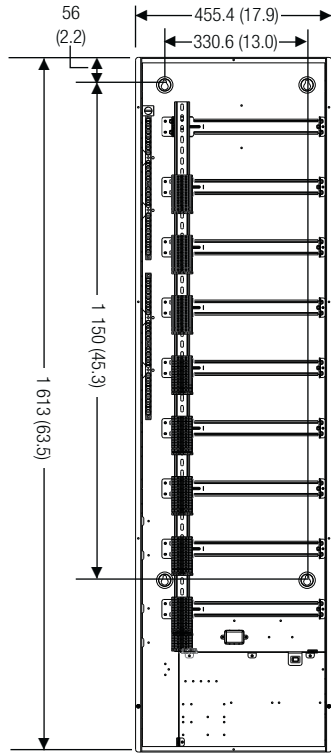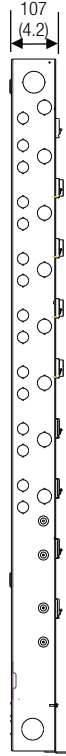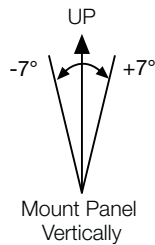
PD8-64-F

Side View
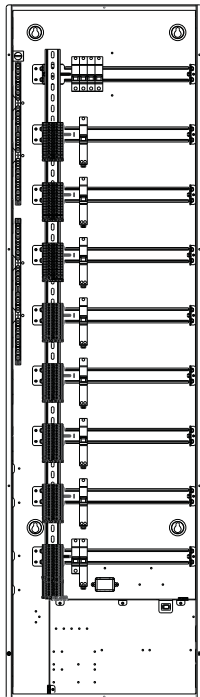
PD8-64-RU10-2L4          PD8-64-BU10-2L4          PD8-64-RU10-2L2          PD8-64-BU10-2L2

# DIN Panels and Accessories
## Dimensions and Mounting (PD9-64 models):

All PD9-64 models use the same enclosure. All measurements shown as: mm (in)
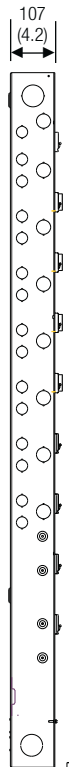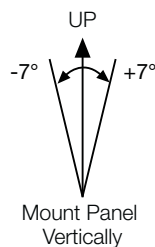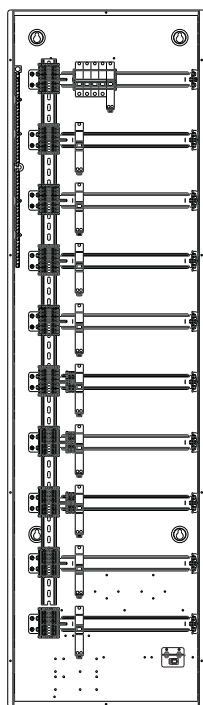
56 (2,2)
455.4 (17.9)
330 (13.0)
1 150 (45.3)
1 613 (63.5)
107 (4.2)

PD9-64-F

UP
-7°   +7°
Mount Panel
Vertically

Side View

PD9-64-RU10-2L4          PD9-64-BU10-2L4          PD9-64-RU10-2L2          PD9-64-BU10-2L2
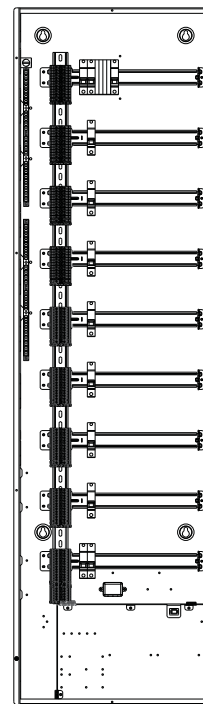
# DIN Panels and Accessories
## Dimensions and Mounting (PD10-64 models):

All PD10-64 models use the same enclosure. All measurements shown as: mm (in)

56 (2,2)  455.4 (17.9)  330 (13.0)  1 150 (45.3)  1 613 (63.5)

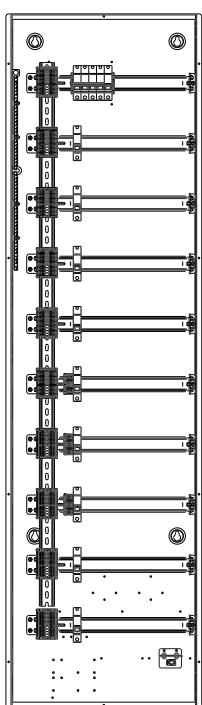107 (4.2)

UP
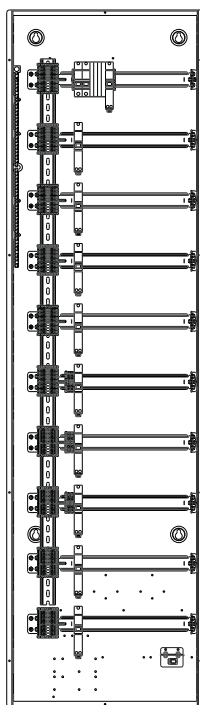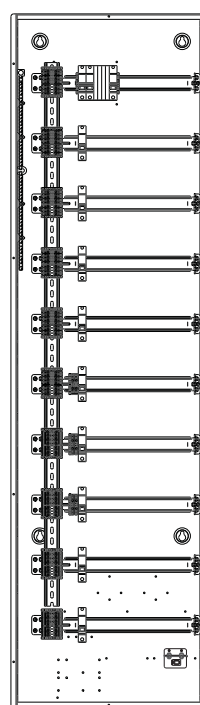-7°  +7°
Mount Panel Vertically
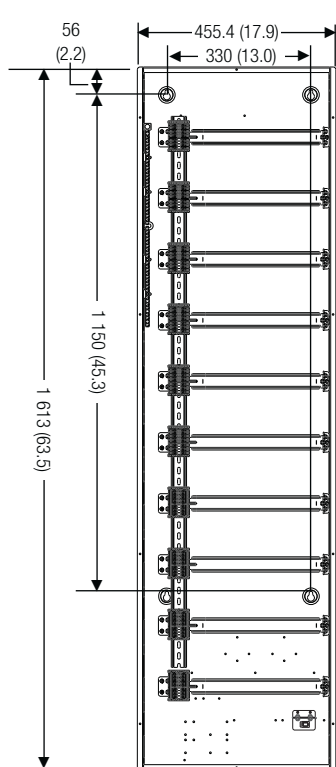
PD10-64-F

Side View

PD10-64-RU10-2L4

PD10-64-BU10-2L4

PD10-64-RU10-2L2

PD10-64-BU10-2L2