



LBD Series

Load Break Disconnect Enclosures

Features & Specifications

The Hubbell Load Break Disconnect Series of disconnect switch enclosures incorporate industry leading safety and design features, providing a superior solution for utility-level solar applications.

Features

- Lab tested under full load
- Multiple snap latches provide secure latching with locking feature
- Gasketed flange O-ring to seal out moisture
- Interlocked rotary handle style operating mechanism with lockout provision as standard
- Adjustable mounting lugs allow for multiple mounting configurations (mounting bracket available as optional selection)
- Bottom Cable Gland location for VE+/VE- output feed to power inverter
- Surge Protective Device (SPD) offered as optional protection
- Breather Vent / Drain offered as optional weather protection
- Optional safety shield covers all live components

Materials

- **Enclosure:** Non-Metallic FRP (Fiberglass Reinforced Polyester)
- **Cover Latches:** 316 Stainless Steel
- **O-ring Gasket:** Silicone
- **Bus Bar:** Copper (>99% Cu Purity) with Tin (Sn) Coating

Electrical Rating

- 1500VDC System Voltage
- Up to 600A Main Disconnect Switch
- Optional SPD: Type 1 (10kaic) or Type 2 (10kaic)

Certifications

- UL Standard: UL1741
- Weather Rating: Type 3, 4, 4X
- Tamb: -40°C to 50°C



Catalog Number Matrix

LBD

F

15

5

S2

BVDH

S

G5

E2

CL-MB-T

Series Constant:

Enclosure Material:

Voltage:

Disconnect Switch Rating:

Surge Protection:

Breather vent or drain:

LBD

C - Carbon steel
F - Fiberglass
S - Stainless Steel

15 - 1500VDC

4 - 400A 2-Pole Disconnect Switch
5 - 500A 2-Pole Disconnect Switch
6 - 600A 2-Pole Disconnect Switch

S1 - Surge Protection - Type 1
S2 - Surge Protection - Type 2
Blank - No Surge Protection

BV - Breather Vertical
BH - Breather Horizontal
DH - Drain Horizontal
Blank - No Vent or Drain

Other Accessories:

Ground Wire Entry Configuration:

Main Power Wire Entry Configuration:

PF - Parallel Feed Brackets (Outgoing)
CL - Mechanical Compression Lugs (Outgoing)
SB - Shear Bolt Lugs (Outgoing)
M - Mounting Unistrut Pre-Installed
MB - Mounting Unistrut Pre-Installed with Mounting Bracket
T - Customer ID Tag / Nameplate

E1 - M16 Cable gland
E2 - M20 Cable gland
Blank - Blank Enclosure

G2 - M25 Cable gland
G3 - M32 Cable gland
G4 - M40 Cable gland
G5 - M50 Cable gland
G6 - M63 Cable gland
Blank - Blank Enclosure

Safety Shield Cover:

S - Shield Cover
Blank - No Shield Cover

Note: Combined maximum circuit current (String I_{sc} X 1.25 X number of circuits) - Cannot exceed the disconnect ampacity rating

