

Low Voltage Disconnects

In the network communication systems where DC loads are voltage sensitive attempting to operate from a low voltage input could damage the powered equipment and permanently reduce the battery capacity, thus installing a low voltage disconnect (LVD) in the circuit is advisable.

LVDs offer three essential functions: Protects sensitive powered equipment from damage caused by low input voltage; Battery recharge interval is much shorter because battery is disconnected before it runs totally flat; and Batteries are protected from early death often caused by excessive and unnecessary discharge. Units are available in rack and wall mount configurations.



Rack Mount LVD

PFM-400

Features

- Automatic low voltage battery disconnect protects batteries in the event of extended AC power loss
- Manual battery disconnect switch allows service/replacement of batteries without system shutdown
- 400 amp rating
- 12, 24 or 48 VDC input/output
- Use with positive, negative or floating ground
- Status lights indicate system and battery connect/disconnect status, assisting technicians in system troubleshooting
- Summary alarm contacts (form C) allow remote indication of system status
- Separate high amp ground bus provided

Specifications

Factory set actuation voltages:

	12 VDC	24 VDC	48 VDC
Connect	12.4	24.8	50.0
Disconnect	10.4	20.0	40.0

- Min/Max Connect/Disconnect Voltages User adjustable $\pm 15\%$
- Max continuous current: 400 amps

Mechanical/General

- Heavy duty plated copper bus bar
- Anodized aluminum front/side panels
- 19" or 23", flush or 6" forward rackmount
- Dimensions: 3.5" H x 17" W x 20.5" D
- Weight: 20 lbs, 9.1 Kg.

Additional Power

Management Features

- High current bus provides parallel tie point for multiple rectifiers
- Digital volt/amp meter
- Summary alarm contacts (form C) allow remote indication of system status
- Up to five optional isolated distribution circuit breakers with "TRIP" alarm contacts

For additional Details see page 7

Wall Mount LVD



Features

- Full LVD functions in a compact case allows easy wall or rack rail mount close to batteries
- 12, 24 and 48 volt models available
- Adjustable connect/disconnect actuation voltage

Specifications

Factory Set Actuation Voltages:

	12 VOLT	24 VOLT	48 VOLT
Disconnect	10.4 VDC	21.0 VDC	42.0VDC
Connect	12.2 VDC	24.5 VDC	49.0VDC

Voltage and Contact Current Ratings:

Indicated By Model Number (i.e., LVD 12-30 = 12 Volts, 30 amps Continuous)

Dimensions (mounted vertically, all models): 5.25" High x 5.25" Wide x 3.5" Deep

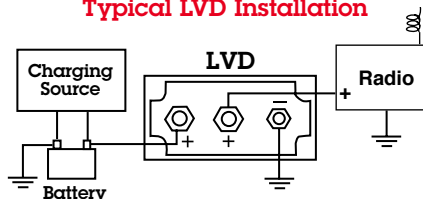
Weight: (All models): 1 LB.

Operating Temperature: 0-50 °C

Models:

- LVD 12-30, LVD 12-75 (Neg. Ground)
- LVD 24-20, LVD 24-50 (Neg. Ground)
- LVD 48-30 (Pos. Ground)

Typical LVD Installation



Powering the Network