

Liebert® Load Bus Sync™ Extender/Adapter for Dual Bus UPS

User Manual—120V-277VAC, 45-65Hz



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INFORMATION FOR THE PROTECTION OF THE ENVIRONMENT

Unit Servicing

This unit makes use of components dangerous for the environment, including electronic cards and other electronic components. Any of these components that are removed from the unit must be taken to specialized collection and disposal centers.

Unit Dismantling

If this unit must be dismantled, this operation must be carried out only by properly trained and qualified specialized personnel. The unit must be taken to a center that specializes in collection and disposal of dangerous substances.

1.0 GENERAL

Liebert's Load Bus Sync (LBS) Extender/Adapter for Dual Bus UPS is designed to extend the LBS function, up to 150m (492 ft.) between Liebert NX™ or Liebert Hipulse U™ series uninterruptible power system (UPS) modules of a dual bus system (DBS). The adapter also enables a Liebert NX UPS or a Liebert Hipulse U to synchronize with other UPS models.

Figure 1 LBS Adapter dimensions

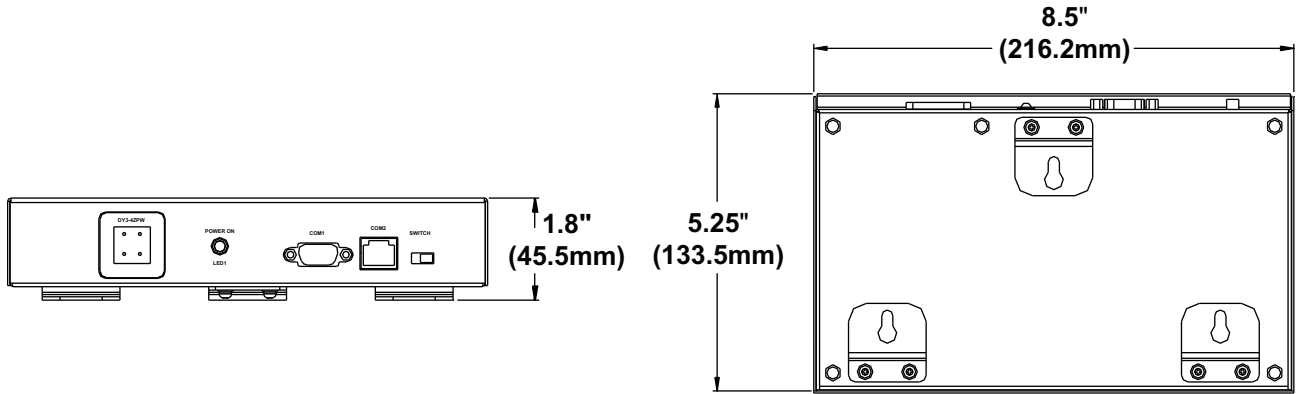


Figure 2 Horizontal installation

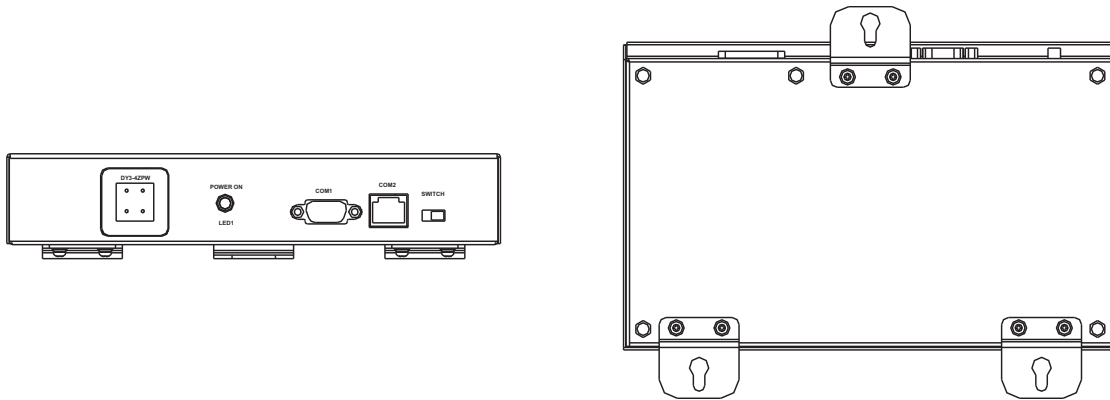
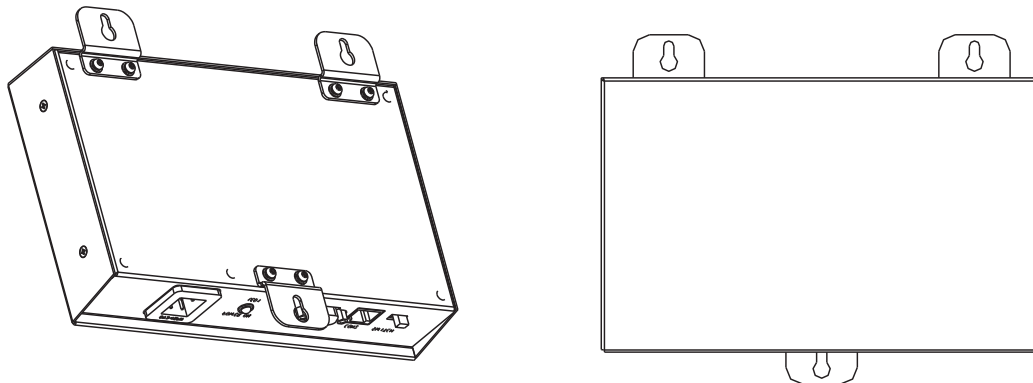


Figure 3 Vertical installation



2.0 INSTALLATION

2.1 UPS Connections: Liebert NX and Liebert Hipulse U

The procedure below permits using a Liebert LBS Extender/Adapter to connect UPSs in the following configurations:

- Liebert NX to Liebert NX
- Liebert NX to Liebert Hipulse U
- Liebert Hipulse U to Liebert Hipulse U

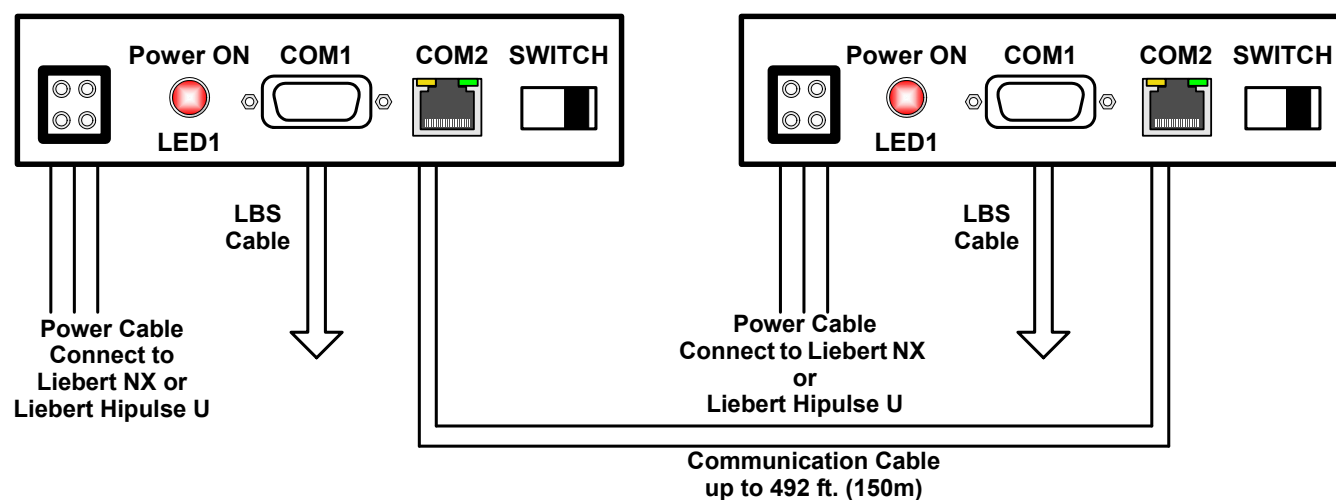


WARNING

Installation by qualified electrical personnel only—hazardous voltage may be present at the UPS output connectors.

1. Connect the power cables of the adapter to the Phase A, Neutral and Ground output of each UPS.
2. Connect the LBS cable to COM1 of each LBS Signal Adapter.
3. Connect the other end of each LBS cable to X4 on the parallel board (UHW241M3) in the Liebert NX UPS or the Liebert Hipulse U.
4. Connect the communication cable (up to 492ft. [150m]) to the COM2 interface of each LBS Signal Adapter.
5. The switch of both LBS signal adapters should be in the **right** position (see **Figure 4**).

Figure 4 Connections for Liebert NX and Liebert Hipulse U



2.2 Liebert NX or Liebert Hipulse U to Other UPS Models

The procedure below permits using a Liebert LBS Extender/Adapter to connect a Liebert NX or Liebert Hipulse U UPS to other UPS models.



WARNING

Installation by qualified electrical personnel only—hazardous voltage may be present at the UPS output connectors.

1. Connect the power cables of the adapter to the Phase A, Neutral and Ground Output of each UPS.
2. Connect the LBS cable to COM1 of the LBS Signal Adapter connected to the Liebert NX or the Liebert Hipulse U.
3. Connect the other end of the LBS cable to X4 on the parallel board (UHW241M3) in the Liebert NX or Liebert Hipulse U.
4. Connect the communication cable (up to 492ft. [150m]) to the COM2 interface of each LBS Signal Adapter.
5. The switches of LBS signal adapters connected to the Liebert NX or the Liebert Hipulse U should be in the **right** position and the switches of DBS signal adapters connected to the other model of UPS (neither Liebert NX nor Liebert HipulseU) should be in the **left** position (see **Figure 5**).

Figure 5 Connecting a Liebert NX or a Liebert Hipulse U to other UPS models

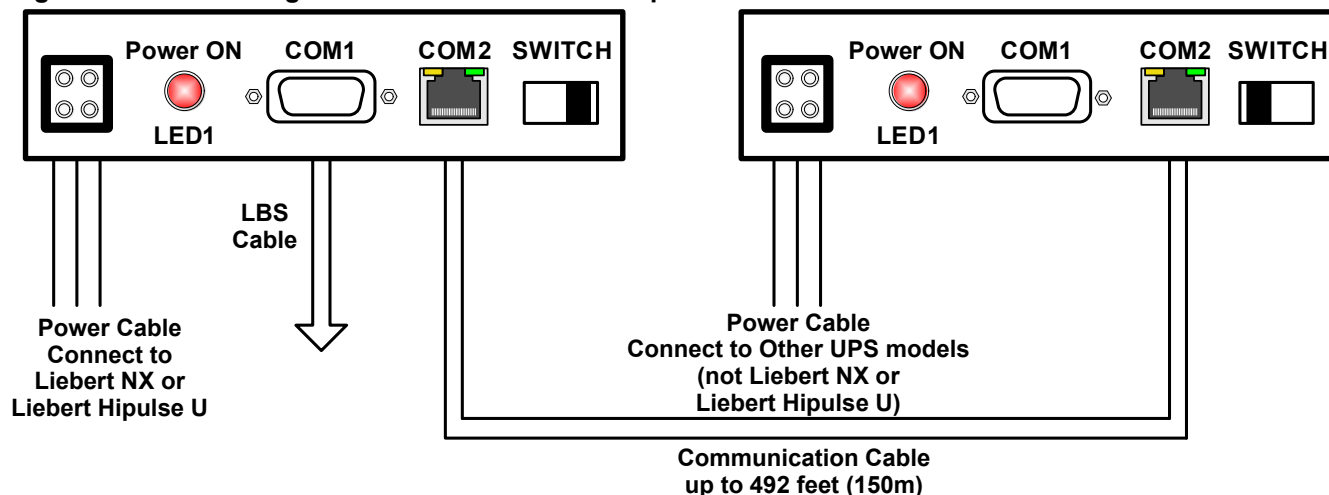


Table 1 Human interface—indicators and switches

Item	Description
Power port	Connect to Phase A, Neutral and Ground output of UPS
LED1 (red)	Power LED. It illuminates when the power is On, turns Off when the power fails.
COM1	LBS Signal interface. Connect to Liebert NX or Liebert Hipulse U.
COM2	RS485 interface. Connect to other Signal Adapter. Green LED: Communication Power is OK. Yellow LED: Adapter is connected to a UPS that is neither a Liebert NX nor Liebert Hipulse U.
SWITCH	Switch to Left: Connect to a UPS that is neither a Liebert NX nor Liebert Hipulse U. Switch to Right: Connect to Liebert NX or Liebert Hipulse U UPS.

Description	Rating
Voltage	120V-277VAC
Frequency	45-65HZ
Current	0.2A Max

Description	Part Number
150 Meter Kit	NX150MLBSKIT
50 Meter Kit	NX050MLBSKIT

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