

LIEBERT NX™ OPTIONS

Installation Sheet

Dual Bus Synchronizer

The Dual-Bus Synchronizer (DBS) keeps the output of two independent UPS systems or parallel UPS systems in synchronization even when the systems are operating in different modes and even when either or both systems are operating on batteries. When the DBS is used, one UPS system is designated as master, the other as slave.

The DBS usually is used with Smart Switch to achieve Dual Bus Power Supply configuration.

Performance Requirements

The DBS operates under the following conditions:

- Both master and slave are on inverter (either system may be on inverter through the rectifier or on inverter through the batteries)
- Master on inverter, and slave on bypass
- Master on bypass, and slave on inverter
- Master and slave on bypass IF the bypass source is the same for both systems

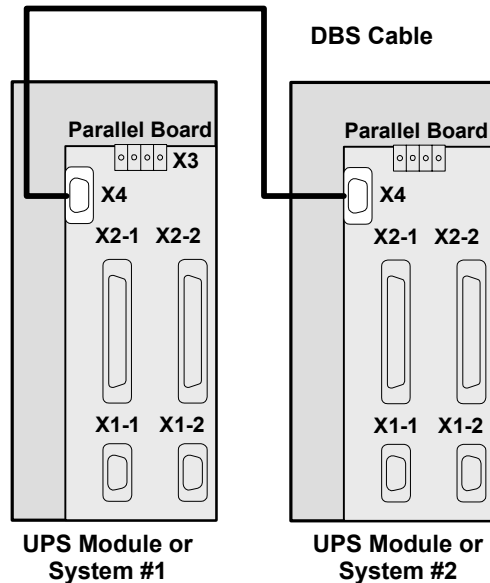
DBS Cable and Settings

For Paradigm-to-Paradigm dual bus configuration, with the help of only one optional DBS cable, the built-in DBS will operate normally without extra DBS control box or interface box. The DBS port is X4 on the Parallel Board (M3).

An optional, 9-pin DBS cable is used to connect two UPS systems through each system's DB9 port on its parallel board. For two parallel systems, the DBS cable can be mounted between any two units belonging to different parallel systems. For information about the DBS kit or to order the optional equipment, see your local Liebert representative.

The DBS cable is connected as illustrated in **Figure 1**.

Figure 1 DBS cable connection



The DBS function is activated with configuration software; when the DBS takes effect, the graphic LCD will display "LBS active."



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