



Liebert®

Network Power Switch



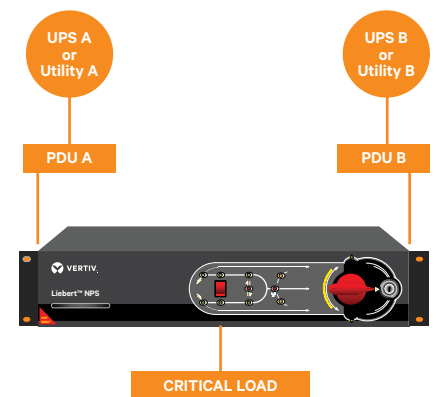
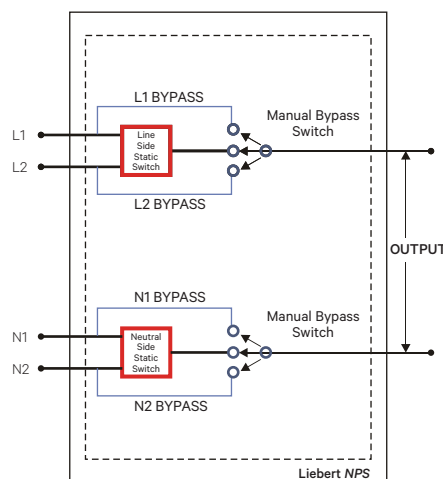
## FEATURES

- Manual and automatic transfers
- Sense and Transfer time: Less than 6 milliseconds
- Hot Swappable Electronic Static Switching Module
- Break-before Make-switching
- Selectable Preferred Sources
- Selectable Auto/Manual Retransfer
- Redundant Control Power Supplies
- Natural Convection Cooling.
- Live Mimic On Hot Swappable Unit For Indicating Load Supply Status & Alarms.
- Make Before Break Manual Bypass Switch To Transfer Load From Static Switch To Direct Source 1 Or Source 2.
- Isolated neutrals
- Standard Voltage free contacts for alarm extension.

## Uniquely Ensures High Power Availability Solution

If your critical electronic equipment demands the reliability of redundant power sources upto the point of actual consumption, Vertiv has a unique and dependable solution.

Vertiv's Liebert NPS provides rapid switching between two independent AC power sources, for uninterrupted operation of critical electronic equipment. Liebert NPS proven power switching technology allows dual AC power paths all the way upto the critical load, for the ultimate in AC power system redundancy, power availability and fault tolerance.



### DESIGNED FOR HIGH NINES AVAILABILITY

- Break- Before - Make switching eliminates any possibility of connecting the two independent power sources together, even under fault conditions.
- Diagnostics and transfer tests detect any potential switch failures before the problem becomes critical.

### RAPID OPERATION

- Network Power Switch transfer time of six milliseconds is invisible to sensitive electronic equipment. (As per IEEE Standard 446 susceptibility curve for IT component)
- Automatic transfer protects the critical load as soon as a problem is detected on the power source by switching to the alternative supply.
- Manual transfer allows power sources to be switched whenever required for scheduled source shutdowns or maintenance.

Many data processing, telecommunications and similar critical systems are designed for continuous operation, frequently without tolerance for even scheduled downtime. Hence a dual AC power sourcing is essential, which has a reliable switching mechanism to support it. However, the right switching is vital.

- The transfer switch must use proven technology and design features for dependable operation.
- It must operate rapidly to avoid 'fast' power faults such as UPS system circuit breaker trips, insulation failures, or operator errors on one system reaching other systems.
- It must be easy to configure, install, operate and maintain, to ensure continuous uptime.
- A dual power system which is inherently reliable, fast and convenient will provide the vital supply of continuous power which your critical electronics demand - if the switching is right.

Modelled on proven UPS technology, the Liebert NPS power transfer switch is installed in the most effective position - close to the protected equipment. This ensures redundant power paths are available right up to the load.

| Mechanical specifications   |       |                                      |
|-----------------------------|-------|--------------------------------------|
| Mechanicals Characteristics | Units | Description                          |
| Height                      | mm    | 88.0                                 |
| Width                       | mm    | 431.0                                |
| Depth                       | mm    | 457.0                                |
| Weight                      | kg    | 8.0                                  |
| Colour                      |       | Matt Black                           |
| Installation                |       | 19" Rack Mounted   Floor   Table Top |
| Cable Entry                 |       | Rear Entry                           |

| Environmental Specifications  |       |                       |
|-------------------------------|-------|-----------------------|
| Environmental Characteristics | Units | Description           |
| Heat Dissipation              | W     | 75                    |
| Storage Temp. Range           | °C    | -40 to 60°C           |
| Operating Temp. Range         | °C    | 0 to 60°C             |
| Relative Humidity             | %     | 0 to 95%              |
| Operating Altitude            | m     | Upto 1500m (5,000 ft) |
| Storage/Transport Altitude    | m     | Upto 1200m (4,000 ft) |
| Audible Noise                 | db    | < 45 db at 1.5 m      |

| Electrical Specifications          |       |   |
|------------------------------------|-------|---|
| Electrical Characteristics         | Units | Description   |
| Nominal Input Voltage              | Volts | 220, 230 or 240 volts single phase, 2 W + G, 50 Hz. Solidly grounded power sources. |
| Nominal Output Current             | Amps  | 25   32   |
| Frequency                          | Hz    | 50/60   |
| Source Unhealthy Status            | -     | Guaranteed Transfer to alternate source within + 10 to -15% of Vnominal             |
| Load Power Factor Range            | -     | 0.5 to unity leading or lagging   |
| Load Crest Factor                  | -     | Upto 3.5  |
| In-Phase transfer window           | -     | Adjustable from 7.5 +1- 1°  |
| Source Voltage Distortion          | %     | Upto 1% THD   |
| Overload Capacity                  | %     | 125% of continuous current for 2 hrs, 1000% for cycles minimum                      |
| Over Current Protection            | -     | By semi conductor fuse  |
| Short Circuit Withstand Capability | Amps  | Upto 20,000 symmetrical amps, protected by internal fusing                          |
| Redundant Control Power            | -     | Taken from available source 1 and source 2 Supplies                                 |
| Integral Maintenance Bypass        | -     | Make Before Break Operation   |



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