

## Rack Network Power Switch

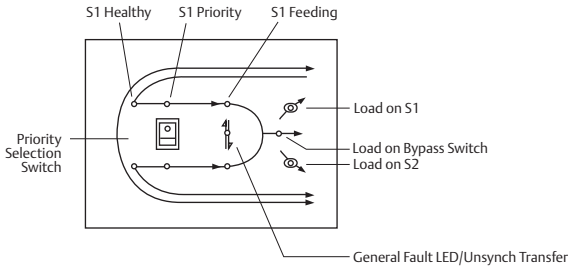
**For redundant operation of two input power sources, secure manual and automatic switching of load to available power source.**

The Liebert NPS is a fast static transfer switching device between two input power sources, that ensures continuous, high-availability dual-input power supply to your equipment. Its slim 2U case, designed for rack mount applications, is capable of supporting loads up to 6kVA of power at 230V or 25 Amps, and features a hot swappable bypass module.

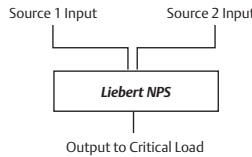
### Applications:

- For redundant operation of two UPS just connect input of the two UPS to the mains input. Connect the output of each UPS to the 2 inputs of the NPS. In case one UPS should fail the NPS will automatically switch to the second UPS source, ensuring the load will stay online.
- When using a Generator Set as an alternative source, running in parallel with the mains utility supply: connect one NPS input to the Mains and the other NPS input to the Generator source. Use a UPS between the Generator and the NPS input to regulate the Generator frequency/voltage and to allow for start up of Generator in case of Main Power failure. When Mains Power fails, the NPS automatically switches to the Generator source starting up at first on UPS Battery Power and then, when the Generator engine is online, transferring the load to the Generator supply.
- When you require to perform maintenance to your input source, the NPS also allows for manual switching to a second source, becoming a practical maintenance bypass. The load is transferred to the second source and the main power source can be disconnected without affecting the load.
- For maintenance reasons, the NPS features also a hot swap electronic module, which can be extracted without affecting the load.

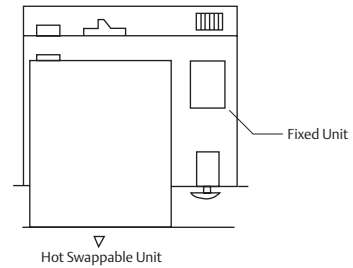
### Status and alert indicators



### Principle of Operation



### Hot Swap module operation



## Specifications

Model		SSWITCH-25A	
Electrical Characteristics	UNITS	Description	
Nominal Input Voltage	Volts	220, 230 or 240 volts single phase, 2W+G, 50 Hz. Solidly grounded power sources	
Nominal Output current	Amps	25	
Frequency	Hz	50 / 60	
Source unhealthy status	-	Guaranteed Transfer to alternate source within -15 % of Vnominal	
Load Power factor range	-	0.5 to unity leading or lagging	
Load Crest factor	-	Up to 3.5	
In-Phase transfer window	-	Adjustable from 5 ± 1°	
Source voltage distortion	%	up to 10% THD	
Overload capability	%	125% of continuous current for 2 hrs, 1000% for two 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 supplies	-	taken from available source 1 and source 2	
Integral Maintenance Bypass	-	Make before break operation	
Alarm contacts	-	Eight Isolated Normally Open alarm & static switch Status contacts.	
Unsynchrised transfer	-	6 millisec for synchronized transfer and 16 millisec for unsynchronized transfer.	
Mechanical Characteristics			
Height	mm	88.0	
Width	mm	427.0	
Depth	mm	450.0	
Weight	kg	8.0	
Colour	-	Matt Black	
Installation	-	19" Rack Mounted / floor / table top	
Cable entry	-	Rear side	
Environmental Characteristics			
Heat dissipation	W	75	
Storage temp. range	°C	-40 to 60°C	
Operating temp. range	°C	0 to 40°C	
Relative humidity	%	0 to 95%	
Operating altitude	m	Upto 1500m (5,000 ft)	
Storage / Transport Altitude	m	Upto 12000m (40,000 ft)	
Audible Noise	db	< 45 db at 1.5 m	
Standars and Requirements			
Safety	-	EN50178	
EMC	-	EN61000-6-2 (2001-10; immunity); EN61100-6-3 (emission)	
Approvals	-	CE mark	

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