

# **Liebert**®

# **Network Power Switch**

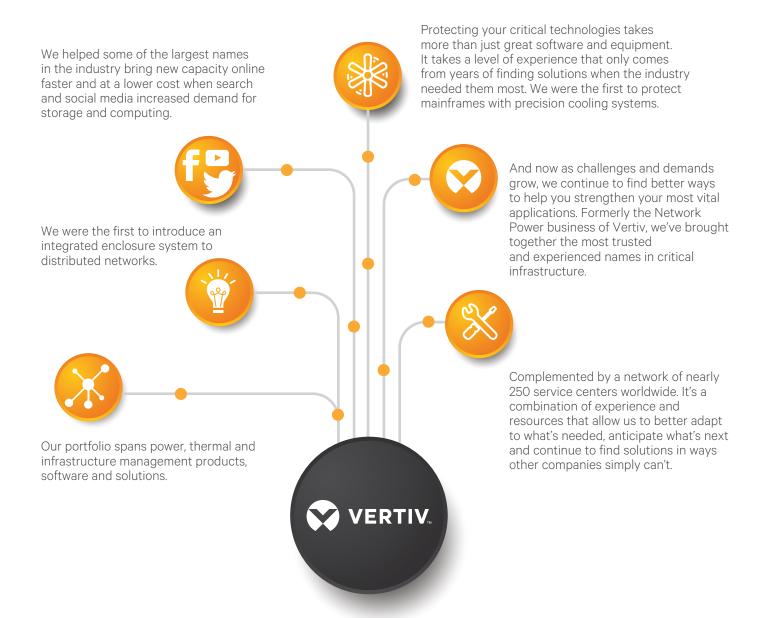
Power Protection for Business Critical Continuity



# CRITICAL EDGE INFRASTRUCTURE









# Intelligent static transfer switches Network Power Switch - I, Network Power Switch - II

Ensures maximum reliability to critical loads by eliminating system failures that are caused by power distribution problems.

# **Network Power Switch - I**

NPS-I R31 16, 32, 63 A Single Phase -1 Pole

# **Network Power Switch - I N**

NPS-I R32 16, 32, 63 A Single Phase - 2 Pole

# **Network Power Switch - II**

NPS-II FL3 60 to 400 A Three Phase - 3 Pole

# **Network Power Switch - II N**

NPS-II FL4 100 to 300 A Three Phase - 4 Pole









### **FEATURES**

# Uses Power Semiconductors as Switching Element

It acts like protective barrier to the load. When power supply feeding to the load goes beyond the preset limits (Frequency or voltage) the switch instantly disconnects from load and protects it.

#### **Independent Micro-controller**

Makes it independent of source functioning and its control scheme. The smart control enables user to select the priority of source.

#### Simple & Rugged design

Low component count, giving high level of reliability.

#### **User friendly display & Control**

Display provides status of incoming power source and the condition of static switch.

#### **Exceptional Performance**

It is tailored to suit the requirements of different operating conditions. It tracks the Input Voltage, Phase & Frequency, Distortion levels at the terminal points. If these parameters are within the limits then depending upon the priority selection, it activates the respective switch. This ensures the power availability to the load

# MODBUS RS 232/485 Interface (optional)

To connect your building Management System (BMS) for monitoring of all status & alarms

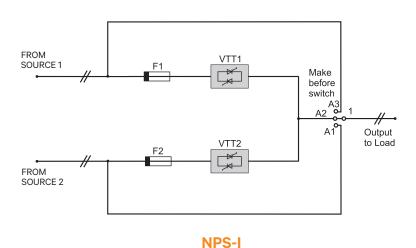
### **Potential Free contacts (optional)**

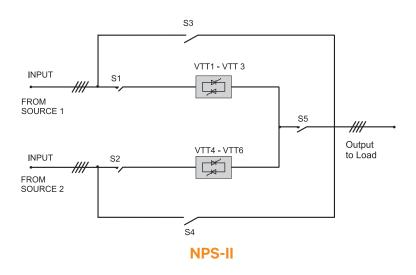
For remote monitoring of the switch activity

The NPS-I & NPS-II switches allows instantaneous transfer of load between two power sources. It can be used to ensure complete redundancy of power supply upto the last piece of wire. It is useful in many applications, where redundant power supply is available, either from two UPS systems or one UPS and bypass source.

These switches are comprising of semiconductor switches, they ensure continuity of power to the load in the event of failure of one of the power sources. They have different user selectable parameters and in-built microprocessor.

### SINGLE LINE DIAGRAM





# Liebert® Network Power Switch

Power Protection for Business Critical Continuity





# **FUNCTION**

In a typical connection (see diagram) two different power sources (UPS, Stabiliser, Power conditioner etc.) are connected to the critical load through NPS-I / NPS-II switch, which will intelligently monitor the power from the sources. Depending upon the preset limits, it will allow the power to be passed to the critical load & thus making it as the best solution for mission critical applications.

# **APPLICATIONS**

- Data Centers
- Call Centers
- Process Control
- Automation

### FRONT VIEW (3U SIZE)



### REAR VIEW (3U SIZE)



# **Liebert**® Network Power Switch





Nominal Output Current®   16 A   32 A   63 A   63 A   63 A   63 A   63 A	Model		NPS-I R31			NPS-I R32					
Nominal Voltage TSC    220 / 230 / 240 V.1 Phase (110 / 120 V optional)	No. of Switching Poles	1 Pole (Ph)				2 Pole (Ph + N)					
Voltage Tolerance®**   15% to + 10% (Default)	Nominal Output Current(1)	16 A	32 A	63 A	16 A	32 A	63 A				
Naminal Frequency   S0 / 60 Hz, ± 2 Hz (Default)	Nominal Voltage <sup>(1)(4)</sup>	220 / 230 / 240 V, 1 Phase (110 / 120 V optional)									
Selection   Sele	Voltage Tolerance <sup>(2)</sup>	- 15% to + 10% (Default)									
Overload Capacity         125 to 150% for 10 min, 150 to 200% for 1 min, 200 to 400% for 5 sec, 400 to 700% for 600 ms, 7700% for 250 ms           Duty         Continuous           Protections         Input Under Voltage, Input Overload, Output Overload, Output Short Circuit           Transfer / Re-transfer Timel <sup>(2)</sup> < 5 ms for Sync. condition           Manual Bygass facility         Acoustic Noise Level <sup>(3)</sup> < 45 dBA           Operating Temperature         0 to 40° C            Relative Humidity         Up to 95% (Non-condensing)           Altitude         < 1000 meter, above sea level (without de-rating)           Reference standard         IEC 62310           Enclosure Protection         IP 20           Cooling         Natural Cooling           Dimension (in mm) WbDxH         440 x 450 x 132           16° Rac Randard         18° Rac Remonstable, 3U Height           Color         RAL 7021           Weight (Approx)         15 kg           Cable Entry         Rear Side           LED Indications         Source 1 Healthy         Source 2 Feeding load         Source 1 Priority           Source 2 Healthy         Source 2 Feeding load         Source 2 Priority           LED Indications         Source 1 Feeding load         Source 2 Abnormal or Back Feed         Alarm <td>Nominal Frequency</td> <td></td> <td></td> <td>50 / 60 H</td> <td>Hz, ± 2 Hz (Default)</td> <td></td> <td></td>	Nominal Frequency			50 / 60 H	Hz, ± 2 Hz (Default)						
Duty   Continuous   Protections   Input Under Voltage, Input Over Voltage, Output Overload, Output Short Circuit	Effciency <sup>(5)</sup>		> 99%			>98%					
Protections	Overload Capacity	125 to 150% for 10 min., 150 to 200% for 1 min., 200 to 400% for 5 sec., 400 to 700% for 600 ms, >700% for 250 ms									
Transfer / Re-transfer Time <sup>270</sup>	Duty			C	Continuous						
S ms / < 15 ms ( selectable) for No Sync. Condition	Protections	Input Under Voltage, Input Over Voltage, Output Overload, Output Short Circuit									
Manual Bypass facility Acoustic Noise Level® Altitude Reference standard Acoustic Noise Level® Altitude Acoustic Noise Noise Sea level (without de-rating) Acoustic Noise N	Transfer / Re-transfer Time <sup>(2)</sup>	< 5 ms for Sync. condition									
Acoustic Noise Level®   Acoustic Noise		< 5 ms / < 15 ms (selectable) for No Sync. Condition									
Operating Temperature         0 to 40° C           Relative Humidity         Up to 95% (Non-condensing)           Allitude         < 1000 meter, above sea level (without de-rating)           Reference standard         [EC 62310]           Enclosure Protection         [P 20]           Cooling         Natural Cooling           Dimension (in mm) WXDXH         440 x 450 x 132           Use of the Entry         RAL 7021           Weight (Approx)         Rear Side           Cable Entry         Source 1 Healthy         Source 1 Feeding load         Source 1 Priority           LED Indications         Source 1 Healthy         Source 2 Feeding load         Source 2 Priority           Source 1 Fuse Fail         No Sync         Source 1 Fuse Fail         No Sync           Source 1 Fuse Fail         No Sync         Source 1 Fuse Fail         Alarm           Load on Manual Bypass - Source 1         Load on Manual Bypass - Source 2         Load on Static Switch           PFC***         Source 1 Abnormal or Back Feed         Source 2 Abnormal or Back Feed         Alarm           Load on Manual Bypass - Source 1         Load on Manual Bypass - Source 2         Load on Static Switch           Other Features         Source 1 Fuse fail         Source 2 Abnormal or Back Feed         Alarm           Loa	Manual Bypass facility	Make before break									
Relative Humidity	Acoustic Noise Level <sup>(6)</sup>	<45 dBA									
Altitude	Operating Temperature	0 to 40° C									
Reference standard	Relative Humidity	Up to 95% (Non-condensing)									
P20	Altitude	< 1000 meter, above sea level (without de-rating)									
Natural Cooling	Reference standard	IEC 62310									
Dimension (in mm) WxDxH	Enclosure Protection	IP 20									
19° Rack mountable, 3U Height	Cooling	Natural Cooling									
Color   RAL 7021	Dimension (in mm) WxDxH			440	x 450 x 132						
Weight (Approx)  Cable Entry  Rear Side  Source 1 Healthy Source 2 Feeding load Source 2 Priority Source 2 Feeding load Source 2 Priority Source 2 Fuse Fail No Sync Source 2 Fuse Fail Load on Manual Bypass - Source 1 Load on Manual Bypass - Source 2 Load on Static Switce  PFC®  Source 1 Abnormal or Back Feed Source 2 Abnormal or Back Feed Alarm  DSP Based control Back feed protection Inbuilt Static Switch fault detector Inbuilt Static Switch fault detector Inbuilt Static Switch fault detector InstrAMON Software for monitoring all status & alarm (Optional)  RS 232 or Ethernet Connectivity, RS 485 MODBUS  Alarm  To Alarm  Alarm  Alarm  Alarm  PSP Based control Fixed or variable source priority mode and selection of preferred source PFC®  RS 232 or Ethernet Connectivity, RS 485 MODBUS  Alarm  To Alarm  Alarm  Alarm  Alarm  To Alarm		19" Rack mountable, 3U Height									
Cable Entry  Rear Side  Source 1 Healthy Source 1 Feeding load Source 1 Priority Source 2 Healthy Source 2 Feeding load Source 2 Priority  Source 1 Fuse Fail No Sync Source 2 Fuse Fail Alarm  Load on Manual Bypass - Source 1 Load on Manual Bypass - Source 2 Load on Static Switce  PFC® Source 1 Abnormal or Back Feed Source 2 Abnormal or Back Feed Alarm  • DSP Based control • Back feed protection • Inbuilt Static Switch fault detector • INSTAMON Software for monitoring all status & alarm (Optional)  Communication Interface (optional)  Communication Interface (optional)  The Alarm  RS 232 or Ethernet Connectivity, RS 485 MODBUS  The Alarm Source 2 Abnormal or Back Feed Alarm • Short circuit protection by electronic circuit  RS 232 or Ethernet Connectivity, RS 485 MODBUS  The Alarm Source 2 Abnormal or Back Feed Alarm • Short circuit protection by electronic circuit  (Optional)  Communication Interface (optional)  The Alarm Source 2 Abnormal or Back Feed Alarm • Short circuit protection by electronic circuit  (Optional)  Communication Interface (optional)  The Alarm Source 2 Feeding load Source 2 Feeding load Source 2 Priority  No Sync  Source 2 Feeding load Source 2 Priority  No Sync  Source 2 Priority  Alarm  • Hot Swappable Electronics static switching module • Fixed or variable source priority mode and selection of preferred source • Fixed or variable source priority mode and selection of preferred source • Short circuit protection by electronic circuit  Communication Interface (optional)  Communication Interface (optional)  The Alarm Source 2 Abnormal or Back Feed  Source 2 Abnormal or Back Feed  Fixed or variable source priority mode and selection of preferred source  • Fixed or variable source priority mode and selection of preferred source  • Fixed or variable source priority mode and selection of preferred source  • Fixed or variable source priority mode and selection of preferred source  • Fixed or variable source priority mode and selection of preferred source  • Fixed or variable source priority mode an	Color	RAL 7021									
Source 1 Healthy Source 2 Feeding load Source 2 Priority Source 2 Healthy Source 2 Feeding load Source 2 Priority  Source 2 Fuse Fail No Sync Source 2 Fuse Fail Alarm  Load on Manual Bypass - Source 1 Load on Manual Bypass - Source 2 Load on Static Switce  PFC(1) Source 1 Abnormal or Back Feed Source 2 Abnormal or Back Feed Alarm  DSP Based control House Fixed or variable source priority mode and selection of Inbuilt Static Switch fault detector preferred source INSTAMON Software for monitoring all status & alarm Short circuit protection by electronic circuit (Optional)  Communication Interface (optional)  RS 232 or Ethernet Connectivity, RS 485 MODBUS  3 Outlets as per IEC320-C13 (Default) or 1 Outlet as per IEC320-C19 (Optional)  (Rating 10 A / 250 VAC) (Rating 16 A / 250 VAC)  6 Outlets as per IEC320-C13 (Default) or 2 Outlet as per IEC320-C19 (Optional)	Weight (Approx)	15 kg									
Source 2 Healthy Source 2 Feeding load Source 2 Priority  Source 1 Fuse Fail Source 2 Fuse Fail Alarm  Load on Manual Bypass - Source 1 Load on Manual Bypass - Source 2 Load on Static Switce  PFC <sup>(1)</sup> Source 1 Abnormal or Back Feed Source 2 Abnormal or Back Feed Alarm  DSP Based control Back feed protection Inbuilt Static Switch fault detector Inbuilt Static Switch fault detector INSTAMON Software for monitoring all status & alarm (Optional)  Communication Interface (optional)  RS 232 or Ethernet Connectivity, RS 485 MODBUS  3 Outlets as per IEC320-C13 (Default) (Rating 10 A / 250 VAC) GOUTLET as per IEC320-C19 (Optional)  Coultets as per IEC320-C13 (Default) CRating 10 A / 250 VAC) GOUTLET as per IEC320-C19 (Optional) Coultets as per IEC320-C13 (Default) CRating 16 A / 250 VAC) GOUTLET as per IEC320-C19 (Optional) Coultets as per IEC320-C13 (Default) CRating 16 A / 250 VAC) CRating 16 A / 250 VAC) CRating 16 A / 250 VAC) COUNTING COU	Cable Entry	Rear Side									
LED Indications  Source 1 Fuse Fail Source 2 Fuse Fail Load on Manual Bypass - Source 1 Load on Manual Bypass - Source 2 Load on Static Switce  PFC®  Source 1 Abnormal or Back Feed Source 2 Abnormal or Back Feed Alarm  DSP Based control Back feed protection Back feed protection Inbuilt Static Switch fault detector INSTAMON Software for monitoring all status & alarm Coptional)  Communication Interface Coptional  The A  Output Sockets  The A  Outlets as per IEC320-C13 (Default) The A  Output Sockets  Source 1 Abnormal or Back Feed Alarm  Hot Swappable Electronics static switching module Fixed or variable source priority mode and selection of Fixed or variable source priority mode and selection o	LED Indications	Source 1 Healthy		Source	1 Feeding load		Source 1 Priority				
Source 2 Fuse Fail Load on Manual Bypass - Source 1 Load on Manual Bypass - Source 2 Load on Static Switch  PFC(1) Source 1 Abnormal or Back Feed Source 2 Abnormal or Back Feed Alarm  DSP Based control Back feed protection Inbuilt Static Switch fault detector INSTAMON Software for monitoring all status & alarm (Optional)  Communication Interface (optional)  RS 232 or Ethernet Connectivity, RS 485 MODBUS  3 Outlets as per IEC320-C13 (Default) RS 232 or Ethernet Connectivity, RS 485 MODBUS  3 Outlets as per IEC320-C13 (Default) Output Sockets  6 Outlets as per IEC320-C13 (Default) Or 2 Outlet as per IEC320-C19 (Optional)		Source 2 Healthy	Source 2 Priority								
Load on Manual Bypass - Source 1  Load on Manual Bypass - Source 2  Load on Static Switch  Source 1 Abnormal or Back Feed  Source 2 Abnormal or Back Feed  Alarm  DSP Based control Back feed protection Inbuilt Static Switch fault detector INSTAMON Software for monitoring all status & alarm (Optional)  Communication Interface (optional)  RS 232 or Ethernet Connectivity, RS 485 MODBUS  3 Outlets as per IEC320-C13 (Default)  Output Sockets  The A 250 VAC)  Goutlets as per IEC320-C13 (Default)  Outlet as per IEC320-C19 (Optional)  Goutlets as per IEC320-C13 (Default)  Out Indicate a per IEC320-C19 (Optional)  RS 20 Outlets as per IEC320-C19 (Optional)  Communication Interface (Optional)  A 2 A 3 Outlets as per IEC320-C13 (Default)  Output Sockets  Output Sockets		Source 1 Fuse Fail No Sync									
PFC <sup>(1)</sup> Source 1 Abnormal or Back Feed Source 2 Abnormal or Back Feed Alarm  DSP Based control Back feed protection Inbuilt Static Switch fault detector INSTAMON Software for monitoring all status & alarm (Optional)  Communication Interface (optional)  RS 232 or Ethernet Connectivity, RS 485 MODBUS  3 Outlets as per IEC320-C13 (Default) (Rating 10 A / 250 VAC)  GOutlets as per IEC320-C13 (Default)  Output Sockets  Output Sockets  Source 2 Abnormal or Back Feed Hot Swappable Electronics static switching module Fixed or variable source priority mode and selection of preferred source Short circuit protection by electronic circuit Optional or 1 Outlet as per IEC320-C19 (Optional) (Rating 10 A / 250 VAC)  Goutlets as per IEC320-C13 (Default) Or 2 Outlet as per IEC320-C19 (Optional)		Source 2 Fuse Fail Alarm									
Other Features  • DSP Based control • Back feed protection • Inbuilt Static Switch fault detector • INSTAMON Software for monitoring all status & alarm (Optional)  Communication Interface (optional)  RS 232 or Ethernet Connectivity, RS 485 MODBUS  16 A Output Sockets  16 A Output Sockets  • DSP Based control • Hot Swappable Electronics static switching module • Fixed or variable source priority mode and selection of preferred source • Short circuit protection by electronic circuit • Short circuit protection by electronic circuit  Output Sockets  16 A Outlets as per IEC320-C13 (Default)  (Rating 10 A / 250 VAC)  6 Outlets as per IEC320-C13 (Default)  or 2 Outlet as per IEC320-C19 (Optional)		Load on Manual Bypass - Source 1 Load on Manual Bypass - Source 2				2	Load on Static Switch				
Other Features  • Back feed protection • Inbuilt Static Switch fault detector • INSTAMON Software for monitoring all status & alarm (Optional)  Communication Interface (optional)  RS 232 or Ethernet Connectivity, RS 485 MODBUS  16 A Output Sockets  16 A Output Sockets  • Fixed or variable source priority mode and selection of preferred source • Fixed or variable source priority mode and selection of preferred source • Fixed or variable source priority mode and selection of preferred source • Fixed or variable source priority mode and selection of preferred source • Fixed or variable source priority mode and selection of preferred source • Fixed or variable source priority mode and selection of preferred source • INSTAMON Software for monitoring all status & alarm • Short circuit protection by electronic circuit • To utlet as per IEC320-C19 (Optional) • Communication Interface • Short circuit protection by electronic circuit	PFC <sup>(1)</sup>	Source 1 Abnorma	or Back Feed	Source 2	Abnormal or Back Feed		Alarm				
Other Features  • Inbuilt Static Switch fault detector • INSTAMON Software for monitoring all status & alarm (Optional)  Communication Interface (optional)  RS 232 or Ethernet Connectivity, RS 485 MODBUS  Output Sockets  16 A Output Sockets  16 Outlets as per IEC320-C13 (Default) (Rating 10 A / 250 VAC) (Rating 16 A / 250 VAC) 6 Outlets as per IEC320-C13 (Default) or 2 Outlet as per IEC320-C19 (Optional)	Other Features	DSP Based contro	I		• Hot Swappable Elec	tronics static switching	g module				
Output Sockets  • INSTAMON Software for monitoring all status & alarm  • Short circuit protection by electronic circuit  (Optional)  RS 232 or Ethernet Connectivity, RS 485 MODBUS  30 Outlets as per IEC320-C13 (Default)  (Rating 10 A / 250 VAC)  6 Outlets as per IEC320-C13 (Default)  or  1 Outlet as per IEC320-C19 (Optional)  (Rating 16 A / 250 VAC)  6 Outlets as per IEC320-C13 (Default)  or  2 Outlet as per IEC320-C19 (Optional)		Back feed protection     Fixed or variable source priority mode and selection of									
Communication Interface (optional)  RS 232 or Ethernet Connectivity, RS 485 MODBUS  3 Outlets as per IEC320-C13 (Default) or 1 Outlet as per IEC320-C19 (Optional)  (Rating 10 A / 250 VAC) (Rating 16 A / 250 VAC)  6 Outlets as per IEC320-C13 (Default) or 2 Outlet as per IEC320-C19 (Optional)		Inbuilt Static Switch	ch fault detector		preferred source						
Communication Interface (optional)         RS 232 or Ethernet Connectivity, RS 485 MODBUS           Output Sockets         3 Outlets as per IEC320-C13 (Default) or 1 Outlet as per IEC320-C19 (Optional) (Rating 10 A / 250 VAC)           6 Outlets as per IEC320-C13 (Default) or 2 Outlet as per IEC320-C19 (Optional)		• INSTAMON Software for monitoring all status & alarm • Short circuit protection by electronic circuit									
(optional)         RS 232 or Ethernet Connectivity, RS 485 MODBUS           Output Sockets         3 Outlets as per IEC320-C13 (Default)         or 1 Outlet as per IEC320-C19 (Optional)           (Rating 10 A / 250 VAC)         (Rating 16 A / 250 VAC)           6 Outlets as per IEC320-C13 (Default)         or 2 Outlet as per IEC320-C19 (Optional)		(Optional)									
Output Sockets 16 A (Rating 10 A / 250 VAC) (Rating 16 A / 250 VAC) (Rating 16 A / 250 VAC) 6 Outlets as per IEC320-C13 (Default) or 2 Outlet as per IEC320-C19 (Optional)	Communication Interface (optional)	RS 232 or Ethernet Connectivity, RS 485 MODBUS									
Output Sockets  (Rating 10 A / 250 VAC)  (Rating 16 A / 250 VAC)  6 Outlets as per IEC320-C13 (Default)  or  2 Outlet as per IEC320-C19 (Optional)	Output Sockets	3 Outlets as per IEC	C320-C13 (Default)	or	1 Outlet as per IEC3	20-C19 (Optional)					
6 Outlets as per IEC320-C13 (Default) or 2 Outlet as per IEC320-C19 (Optional)		(Rating 10 A / 250	VAC)		(Rating 16 A / 250 \	/AC)					
32 A (Rating 10 A / 250 VAC) (Rating 16 A / 250 VAC)		6 Outlets as per IE0	C320-C13 (Default)	or	2 Outlet as per IEC3	320-C19 (Optional)					
( (duling 1077/200 V70)		(Rating 10 A / 250	VAC)		(Rating 16 A / 250 \	/AC)					

 $<sup>(4) \</sup> Allowable \ source \ voltage \ disortion \ (THD) < 10\% \ (5) \ For \ tolerance \ see \ IEC \ 60146-1-1 \ (6) \ Acoustic \ Noise \ Level \ from \ 1 \ meter \ (Ref. \ ISO \ 3746) V \ (4) \ Allowable \ Source \ Voltage \ (Ref. \ ISO \ 3746) V \ (4) \ Acoustic \ Noise \ Level \ from \ 1 \ meter \ (Ref. \ ISO \ 3746) V \ (4) \ Acoustic \ Noise \ Level \ from \ 1 \ meter \ (Ref. \ ISO \ 3746) V \ (5) \ For \ tolerance \ Source \ Noise \ Level \ from \ 1 \ meter \ (Ref. \ ISO \ 3746) V \ (5) \ For \ tolerance \ Source \ Noise \ Level \ from \ 1 \ meter \ (Ref. \ ISO \ 3746) V \ (5) \ For \ tolerance \ Source \ Noise \ Level \ from \ 1 \ meter \ (Ref. \ ISO \ 3746) V \ (5) \ For \ tolerance \ Source \ Noise \ Level \ from \ 1 \ meter \ (Ref. \ ISO \ 3746) V \ (5) \ For \ tolerance \ Source \ Noise \ Level \ from \ 1 \ Meter \ (Ref. \ ISO \ 3746) V \ (5) \ For \ tolerance \ Noise \ Ref. \ (6) \ For \$ 

# Liebert® Network Power Switch





Model				NPS-II FL4							
Ampere Rating		60 / 100 A	200 A	300 A	400 A	100 A	200 A	300 A			
Input / Output			3 Ph	iase			3 Phase				
No. of Switching Poles		3 Pole (Ph)					4 Pole (Ph+N)				
Nominal Output Current		60 / 100 A	200 A	300 A	400 A	100 A	200 A	300 A			
Nominal Voltage		400 / 415 V (3 Ph + N)									
Voltage Tolerance		Low band : -30% to +15% (Default), Medium band : -25% to +15%, Narrow Band : -15% to +15%									
Nominal Frequency		Nominal : 48 - 52 Hz, Wide 40 - 70 Hz (Default)									
Effciency (1)		> 98%									
Overload Capacity		110% for 1 hour, 150% for 1 min, 1000% for 100 ms									
Duty				Co	ntinuous						
Protections			Input Under Vo	tage, Input Over Vo	ltage, Output C	verload, Output	Short Circuit				
Transfer / Retransfer Time		Lo	w Sensitivity : < 8 r	ms, Medium Sensitiv	vity : < 5 ms (De	fault), High Sens	itivity: < 3 ms				
Manual Bypass facility				Р	rovided						
Acoustic Noise Level (2)		< 60 dBA									
Operating Temperature		0 to 40° C									
Relative Humidity		up to 95% (Non-condensing)									
Altitude		< 1000 meter, above sea level (without de-rating)									
Testing Standard		IEC 62310 -3									
Enclosure Protection		IP 20									
Cooling		Forced Cooling									
Dimension (in mm)	- Width	800	800	1000	1000	800	1000	1000			
	- Depth	600	600	600	600	600	600	600			
	- Height	1750	1750	1950	1950	1750	1950	1950			
Weight in kg (approx)		225	225	275	350	225	250	275			
Color		RAL 7021									
		Source 1 R phase volta	Output Load R		Date & Time						
LCD Display parameters						Output Load Y					
		Source 1 B phase volta	Output Load B								
		Source 1 Healthy		Source 1 Feeding Source 2 Feeding		Source 1 Priority		Sensitivity Low			
LED Indications		Source 2 Healthy	Source 2 Priority	/	Sensitivity Medium						
								Sensitivity High			
Fault Indications		SPP, Overload									
Communication Interface				RS 485 Mo	dbus (optional)	)					

<sup>(1)</sup> For tolerance see IEC 60146-1-1 (2) Acoustic Noise measured @ 1.0 meter as per ISO 3746 Specifications subject to change without prior notice.



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