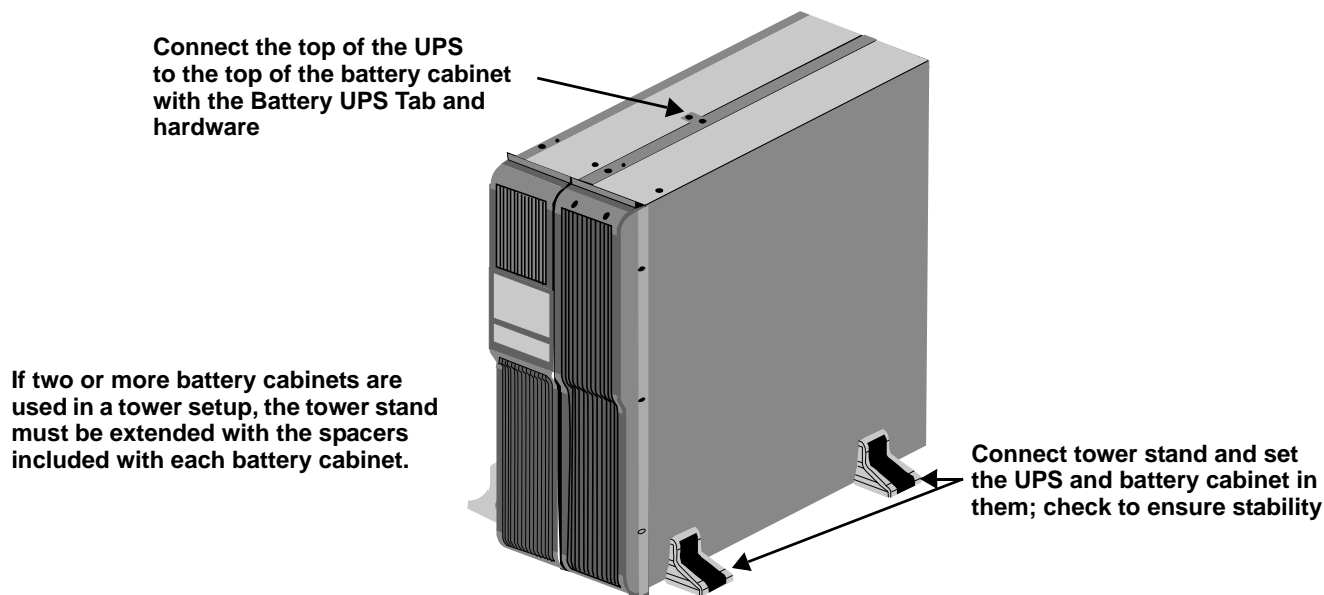


3.11 External Battery Cabinet Installation

Optional Liebert external battery cabinets may be connected to the UPS to provide additional battery run time. External battery cabinets are designed to be placed all on one side of the UPS or stacked beneath the UPS. The batteries have a maximum run time of three hours at full load.

1. Install the external battery cabinet in tower- or rack-configuration (see **Figure 14** or **3.3 - Rack-Mount UPS Conversion and Installation**).
2. Connect the external battery cabinet cable to the rear of the external battery cabinet, then to the rear of the UPS (see **Figure 15**).

Figure 14 Install the external battery cabinet in tower installation



NOTICE


External battery cabinet power connectors are color-coded as noted in **Table 1**. Do not try to install external battery cabinets with connectors that are a different color from the battery connector on the UPS.

Table 1 Battery cabinet connector color key

UPS Model	Nominal System Voltage (connector color)	External Battery Cabine Model
PS1000RT3-120XR PS1000RT3120XRW	24VDC (Red)	PSRT3-24VBXR
PS1500RT3-120XR PS1500RT3120XRW		
PS2200RT3-120XR PS2200RT3120XRW	48VDC (Gray)	PSRT3-48VBXR
PS3000RT3-120XR PS3000RT3120XRW		

8.0 SPECIFICATIONS

Table 6 Liebert PSI XR specifications

Model Number	PS1000RT3-120XR PS1000RT3120XRW	PS1500RT3-120XR PS1500RT3120XRW	PS2200RT3-120XR PS2200RT3120XRW	PS3000RT3-120XR PS3000RT3120XRW
Power Rating, VA/W	1000VA/900W	1500VA/1350W	1920VA/1920W	3000VA/2700W
Dimensions, W x D x H, in (mm)				
Unit	17.3 x 19.3 x 3.5 (440 x 490.5 x 88)		17.3 x 27.6 x 3.5 (440 x 700.5 x 88)	
Shipping	22 x 24.1 x 9 (560 x 612 x 228)		22 x 34.8 x 9.0 (560 x 884 x 228)	
Weight, lb (kg)				
Unit	56 (25)	62 (28)	92 (42)	105 (48)
Shipping	64 (29)	70 (32)	101 (46)	115 (52)
Input AC Parameters				
Surge Protection	570J			
Voltage Range Without Battery Operation	83-159 VAC (configurable)			
Frequency Range	45-65Hz, (±0.5Hz)			
Input Power Cord, 10ft (3m) attached	NEMA 5-15P plug		NEMA 5-20P plug	NEMA L5-30P plug
Output Receptacles	(6) NEMA 5-15R		(4) NEMA 5-15R (2) NEMA 5-20R T-Slot, accepts 15A Plug	(4) NEMA 5-15R (2) NEMA 5-20R T-Slot, accepts 15A Plug (1) NEMA L5-30R
Voltage (Normal Mode)	110/120/127 VAC (configurable)			
Voltage (Battery Mode)	110/120/127 VAC; ±5% before low-battery warning			
Transfer Time	4-6 ms typical			
Waveform	Sinewave			
Battery Parameters				
Type	Valve-regulated, nonspillable, lead acid			
Quantity x Voltage x Ah	4 x 12 x 7.2	4 x 12 x 9	8 x 12 x 7.2	8 x 12 x 9
Recharge Time	5 hours to 90% of rated capacity, after full discharge into resistive load			
Battery Backup Time				
Full Load	5 minutes			
Half Load	10 minutes			
Environmental				
Operating Temperature, °F (°C)	32 to 104 (0 to 40)			
Storage Temperature, °F (°C)	5 to 104 (-15 to 40)			
Relative Humidity	0% to 90%, non-condensing			
Operating Altitude	Up to 10,000 ft (3000m)			
Audible Noise	<45 dBA			
Agency				
Safety	UL 1778, c-UL Listed			
Surge	ANSI C62.41 CatA Lev3 (surges) IEC61000-4-5			
ESD	IEC61000-4-2			
Susceptibility	IEC61000-4-3			
Electrical Fast Transient	IEC61000-4-4			
Emissions	FCC Part 15, Class A			
Conducted Immunity	IEC61000-4-6			
Harmonics	IEC61000-3-2			
Network surge	UL 497 B			
Transportation	ISTA Procedure 1A Certification			
Environmental	ROHS compliant 			

* NEC limits the input current rating of the PS2200RT3-120XR and PS2200RT3120XRW models to 80% of the input plug's rating. Up to 2200VA/1980W is available by contacting a certified electrician to change the input plug to 30A plug. Emerson Network Power assumes no liability for damage caused by miswiring or misapplication of the input plug.

Table 7 Battery cabinet specifications

Model Number	PSRT3-24VBXR	PSRT3-48VBXR
Used w/UPS Model	PS1000RT3-120XR PS1000RT3120XRW PS1500RT3-120XR PS1500RT3120XRW	PS2200RT3-120XR PS2200RT3120XRW PS3000RT3-120XR PS3000RT3120XRW
Dimensions, W x D x H, in (mm)		
Unit	17.3 x 19.3 x 3.5 (440 x 490.5 x 88)	
Shipping	22 x 26.6 x 9 (560 x 675 x 228)	
Weight, lb (kg)		
Unit	64 (29)	
Shipping	73 (33)	
Batteries		
Type	Valve-regulated, nonspillable, lead acid	
Quantity x Voltage x Ah	8 x 12 x 7.2	8 x 12 x 7.2
Manufacturer	CSB, YUASA or Equivalent	
Environmental		
Operating Temperature, °F (°C)	32 to 104 (0 to 40)	
Storage Temperature, °F (°C)	5 to 104 (-15 to 40)	
Relative Humidity	0% to 90%, non-condensing	
Maximum Operating Altitude	10,000 ft. (3000m)	
Agency		
Safety	UL 1778, c-UL Listed	
Emissions	FCC Part 15, Class A	
Transportation	ISTA Procedure 1A Certification	