

Site Planning Data—Liebert® EXL™ S1, 625-1200kVA, SMS and Distributed Bypass Systems

Table 1 Electrical and Thermal Site Planning Data—Liebert® EXL™ S1, 625-1200kVA Single Module (SMS) and Distributed Bypass (MMS)

UPS Rating		Input/Output Voltage, VAC	Rectifier AC Input Current			Bypass/Output AC Output Current		Battery			Efficiency		Max. Heat Dissipation Full Load BTU/H
kVA	kW		Nom	Max	External Breaker Trip Amp (100% Rated)	Nom	External Breaker Trip Amp (100% Rated)	Nominal VDC	Max. Current at EOD	External Breaker Trip Amps	AC-AC 100%	DC-AC 100%	
625	625	480	780	858	900	752	800	480	1618	2000	≥96.4%	≥96.4%	79640
750	750	480	937	1030	1200	902	1000	480	1943	2000	≥96.3%	≥96.3%	98325
800	800	480	999	1099	1200	962	1000	480	2073	2500	≥96.3%	≥96.3%	104880
1000	1000	480	1247	1372	1400	1203	1400	480	2588	3000	≥96.4%	≥96.4%	125,223
1100	1100	480	1373	1510	1600	1323	1400	480	2849	3000	≥96.3%	≥96.3%	140,167
1200	1200	480	1499	1574	1600	1443	1600	480	3110	4000	≥96.3%	≥96.2%	157,320
1200	1200	480	1499	1649	2000	1443	1600	480	3110	4000	≥96.3%	≥96.2%	157,320
See Notes on Page 2:			1, 4, 5, 7, 8, 9, 11, 12			2, 3, 5, 7, 8, 9, 11, 12		6, 8, 9, 11, 12			—	—	—

Table 2 Dimensions and Weights—Liebert® EXL™ S1, 625-1200kVA with and Without Options

UPS Rating		Installed Options			Dimensions WxDxH in (mm)	Approx. Weight Unpackaged, lb (kg)
kVA	kW	Back Feed Disconnect (BFD)	Bypass (Sharing) Inductors	Common Mode Choke		
625/750/800	625/750/800	—	—	—	78.8 x 36.0 x 79.1 (2002 x 914 x 2009)	3508 (1591)
625/750/800	625/750/800	X	—	—	109.3 x 36.0 x 79.1 (2776 x 914 x 2009)	4258 (1931)
625/750/800	625/750/800	—	X	—		4428 (2008)
625/750/800	625/750/800	—	—	X		4787 (2171)
625/750/800	625/750/800	X	X	—		4558 (2067)
625/750/800	625/750/800	X	—	X		5096 (2311)
625/750/800	625/750/800	—	X	X		5457 (2475)
625/750/800	625/750/800	X	X	X		5665 (2569)
1000/1100/1200	1000/1100/1200	—	—	—		104.5 x 36.0 x 79.1 (2654 x 914 x 2009)
1000/1100/1200	1000/1100/1200	X	—	—	128.1 x 36.0 x 79.1 (3254 x 914 x 2009)	5116 (2321)
1000/1100/1200	1000/1100/1200	—	X	—		5286 (2398)
1000/1100/1200	1000/1100/1200	—	—	X		5645 (2561)
1000/1100/1200	1000/1100/1200	X	X	—		5416 (2457)
1000/1100/1200	1000/1100/1200	X	—	X		5954 (2701)
1000/1100/1200	1000/1100/1200	—	X	X		6315 (2864)
1000/1100/1200	1000/1100/1200	X	X	X		6523 (2959)
See Notes on Page 2:		—	—	—		10, 11, 12

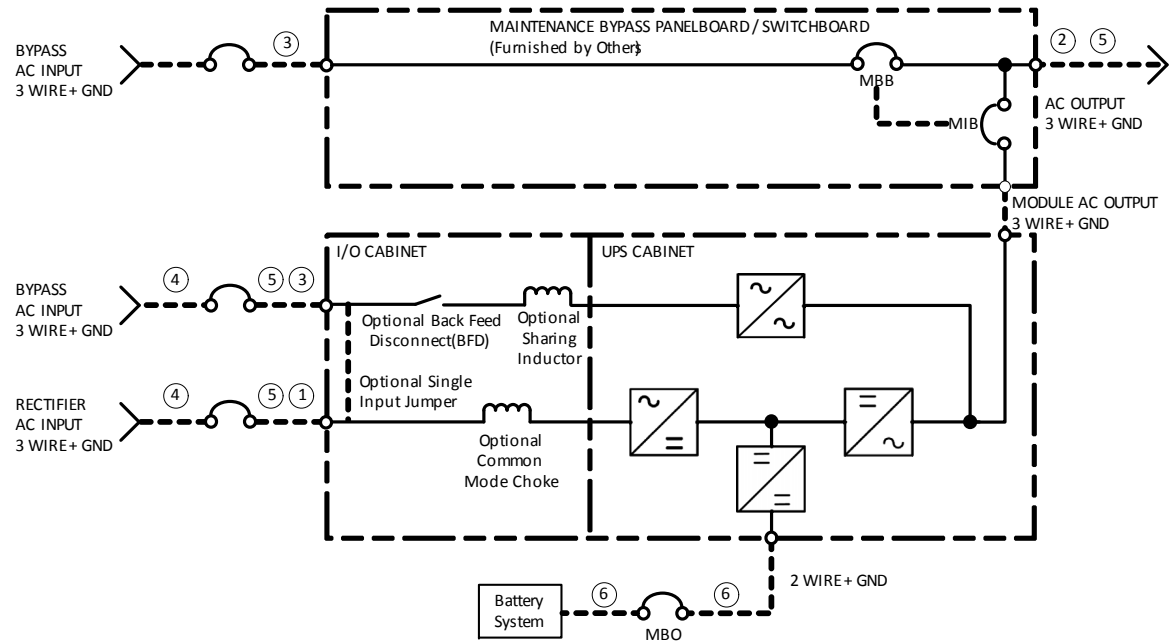
Notes for Tables 1 and 2

- Nominal rectifier AC input current (considered continuous) is based on full rated output load. Maximum current includes nominal input current and maximum battery recharge current (considered non-continuous). Continuous and non-continuous current limits are defined in NEC 100. Values shown for maximum current are 110% of nominal input current, except for 1200kVA/kW module with 1600A breaker. This 1200kVA/kW module has a maximum current of 105% of nominal input current. If configuring a 1200kVA/kW module with a 1600A external rectifier input breaker, contact Applications Engineering for support.
- Nominal AC output current (considered continuous) is based on full rated output load.
- Bypass AC input current (considered continuous) is based on the full rated output load.
- Vertiv recommends that feeder protection (by others) for the rectifier AC input and the bypass AC input be provided by separate overcurrent protection devices.
- UPS output load cables must be run in separate conduit from input cables.
- Power cable from the module DC bus to the battery should be sized for a total maximum 2.0 volt line drop (power cable drop plus return cable drop as measured at the module) at maximum discharge current.
- Grounding conductors are to be sized per NEC 250-95. Neutral conductors are to be sized for full capacity—per NEC 310-16, Note 10—for systems with 4-wire loads and 20% minimum capacity for 3-wire loads.
- Rectifier AC Input:** 3-phase, 3-wire, plus ground
AC Output to Load: 3-phase, 3-wire, plus ground
Bypass AC Input: 3-phase, 3-wire, plus ground
Module DC Input from Battery: 2-wire (positive and negative), plus ground
- All wiring is to be in accordance with National and Local Electrical Codes.
- Minimum clearance above the UPS is 2 ft. (0.6m).
- Top or bottom cable entry are available through removable access plates. Cut plate to suit conduit size. If aluminum cable is to be used, top and bottom cable entry may be required. Contact Applications Engineering for assistance.
- Control wiring and power cables must be run in separate conduits. Control wiring must be stranded tinned conductors.

Table 3 HRG compatibility

UPS Modules	HRG Current Rating, A
1	3
2	6
3	9
4	11
5	14
6	17
7	20
8	23

The values above are the highest current that the UPS will supply to an HRG system.



The Liebert® EXL™ S1 is compatible with high-resistance ground systems. See your local Vertiv representative for details.

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