

Liebert® ITA

True On-Line Double Conversion Parallelable UPS

■ 5kVA ■ 6kVA ■ 10kVA ■ 16kVA ■ 20kVA

Features

Best-in-class Efficiency

- Supports parallel operation up to 4 units N+X configuration
- Backup time can be prolonged through cascaded connection or use of large capacity battery bank
- Outstanding energy-saving performance with 92%-94% efficiency
- Input power factor of up to 0.99 with high electric energy utility rate
- Extra-wide input voltage / frequency range effectively reduces the discharging period of battery. Thus, prolonging battery life
- Compatible with 1-phase and 3-phase input power

Highly Reliable

- Double-conversion online design that ensures continuous power even when the mains AC fails
- Supports N+X redundant mode up to 4 units for increased system reliability
- DSP full-digital control with high output voltage precision
- Uses state-of-the-art technology and components to withstand fluctuation of input main voltage
- Provides latest USB monitoring interface
- Optional WEB / SNMP card for remote management
- Available in standard and long backup for 4 to 8 hours runtime. External charger is also available
- Strong charging capability effectively reduces battery recharging time

Best Total Cost

- 0.9 output power factor and can power 10-30% more load than other ordinary UPS, suitable for latest server models (0.8 output power factor for 6KVA model)
- Uses soft-wire parallel operation mode without the need for complex parallel subrack, allowing the user to save on system cost
- High system efficiency up to 94%, energy-saving and low operational cost
- High power density allows the rack to have a smaller footprint
- Standard two (2) years warranty for 5kVA and 6kVA models; 1 year warranty for 10, 16 and 20kVA models

Liebert® ITA Series is a full featured scalable UPS designed to provide long backup time for small computer rooms and network equipment. Using true on-line double conversion UPS technology, Liebert® ITA Series provides high efficiency and reliability with 0.9/0.8 output power factor that can power 10-30% more load than other ordinary UPS. This UPS offers flexibility with parallelable configuration and extended backup time with external battery cabinets.



Liebert® 16/20kVA model

Efficiency and Flexibility from the Liebert® ITA UPS Family

The Liebert® ITA UPS family from Emerson Network Power provides a truly modular, highly efficient and best-in-class power protection solution for your network. Featuring true on-line double conversion technology and extended runtime across all models, the Liebert® ITA is parallelable for maximum flexibility.

- 5kVA and 6kVA
- 10kVA
- 16kVA and 20kVA

Technical Specifications

Specifications	5kVA		6kVA		10kVA		16kVA	20kVA
Model	Standard	Long back-up	Standard	Long back-up	Standard	Long back-up	Long back-up	Long back-up
Part Number	01201056	01201057	01200858	01200859	01200610	01200679	01200758	01200782
Model Name	UHA1R-0050	UHA1R-0050L	UHA1R-0060	UHA1R-0060L	UHA1R-0100	UHA1R-0100L	UHA3R-0160L	UHA3R-0200L
Input parameters								
Rectifier Type	IGBT							
Rate Voltage	230 / 400VAC single-phase, 3-wire or 3-phase, 4-wire system						400VAC 3-phase, 4-wire system	
Input Voltage Range	Single-phase, 120VAC to 276VAC				Single-phase, 120VAC to 288VAC		3-phase, 228VAC to 478VAC	
Input Frequency Range	45Hz to 65Hz				45Hz to 65Hz		45Hz to 70Hz	
Input Power Factor	Single-phase ≥ 0.99 / 3-phase ≥ 0.95						Full Load > 0.99	
Battery								
Battery Type	Sealed, non-spillage, maintenance-free lead-acid battery							
Charging Capability	< 3hrs for recharging to 90% capacity (standard mode)				< 6hrs for recharging to 90% capacity (standard mode)		4.5kW, max charging power	
Full Load Runtime (min. battery cabinet/s)	Standard battery cabinet: ≤ 5 minutes						< 5 minutes	
External Battery Cabinet	02351253 (16 blocks x 12V x 7.2Ah), Min. Qty Required: ITA 5/6/10KVA - 1pc; ITA 16 / 20kVA - 2pcs							
Battery Dimensions: H x W x D (mm)	85 (2U) x 435 x 640							
Battery Weight (kg)	50							
Output parameters								
Rated Power	5kVA / 4.5kW		6kVA/4.8kW		10kVA / 9kW		16kVA / 14.4kW	20kVA / 18kW
Rated Voltage	Single-phase, 220/230/240VAC						3-phase in / out and 3-phase in / Single-phase out	
Voltage Stability	3%						1%	
Frequency Stability	0.25%							
Output Voltage THD	< 3% linear load, <5% non-linear load						< 2% linear load, <5% non-linear load	
Load Crest Factor	3:1 (compliant with IEC 62040-3)							
Step Load Performance	100%							
Overload Capacity Performance (% rated load)	125% for 1min				105 to 125% for 5min 125 to 150% for 1min > 150% for 500ms		105 to 125% for 5min 125 to 150% for 1min > 150% for 200ms	
System parameters and standard								
Conversion Type	On-line double conversion							
Parallel Operation	3+1 parallel operation							
Form Factor	Tower and rack convertible, optional rail kit available							
System Efficiency	> 92%				> 92.5%		Up to 94%	
Transfer Time (power failure)	No transfer time, on-line operation							
Noise	< 50dB				< 55dB		≤ 58 dB	
Language	English / Chinese							
Standards / Conformity	IEC/EN62040-1-1							
EMC	IEC / EN 62040-2, IEC / EN61000-3-11, IEC / EN61000-3-12, YD / T1095-2008							
Surge Protection	IEC / EN 61000-4-5							
Protection Level	IP20							
Unit Dimensions: H x W x D (mm)	85 (2U) x 435 x 625				85 (2U) x 435 x 640		130 (3U) x 435 x 750	
Net Weight (kg)	17				20.8		35	
Warranty	2 years				1 year			
Communication and management								
Interface Type	USB / Intellislot (Dry Contact / SNMP Card / Modbus Card / RS485 Card)							
Management Software	SiteMonitor							
Environmental parameters								
Operating Temperature	0 to 40°C							
Relative Humidity	5 to 95%, non-condensing							
Altitude (m)	1500						2000	

Runtime (in minutes)

5000 / 6000VA						
No. of battery modules	4800W (6kVA only)	3800W	2800W	1800W	1300W	1000W
1	4.2m	6.7m	11,7m	25m	45.8m	1h7m
2	9.2m	13.3m	23.3m	50m	1h32m	2h13m
3	20m	28.3m	43.3m	1h26m	2h30m	1h1m
4	30m	38.3m	1h7m	2h5m	3h11m	5h16m
5	35m	43.3m	1h15m	2h20m	3h43m	5h55m
6	40m	55m	1h26m	2h45m	4h40m	6h21m
7	44m	58.3m	1h32m	3h4m	4h43m	6h40m
8	58m	83.3m	1h57m	3h16m	4h51m	7h5m
9	1h10m	1h32m	2h13m	3h45m	5h41m	8h11m
10	1h23m	1.57m	2h30m	4h18m	6h31m	9h27m

10000VA						
No. of battery modules	9000W	7000W	5000W	3000W	2000W	1400W
2	5.5m	8m	14m	30m	55m	1h20m
3	12m	17m	26m	52min	1h30m	2h25m
4	18m	23m	40m	1h15m	1h50m	3h10m
5	21m	26m	45m	1h25m	2h14m	3h33m
6	24m	33m	52m	1h43m	2h48m	3h49m
7	26m	35m	55m	1h50m	2h50m	4h
8	35m	50m	1h10	1h59m	2h55m	4h15m
9	42m	55m	1h20m	2h15m	3h25m	4h55m
10	50m	1h7m	1h30m	2h35m	3h55m	5h40m



16000VA 20000VA (Requires adding battery cabinets in pairs)												
No. of battery modules	18kW	14.4kW	13.5kW	10.8kW	9kW	7.2kW	5.4kW	4.5kW	3.6kW	3kW	1.8kW	1.5kW
4	5m	8m	9m	13m	16m	25m	38m	50m	1h	1h25m	2h30m	3h
6	10m	15m	16m	25m	30m	45m	1h	1h25m	1h48m	2h10m	4h	4h53m
8	17m	25m	27m	35m	50m	1h	1h36m	1h54m	2h30m	3h	5h40m	7h
10	25m	33m	38m	50m	1h	1h30m	2h	2h30m	3h10m	4h	7h17m	8h21m



5kVA, 6kVA & 10kVA model



16kVA & 20kVA model

Product List

Part Number	Description
Liebert® ITA 5/6KVA 3x1 or 1x1 (On-Line Double Conversion Paralleleable UPS)	
01201056	Liebert® ITA 5KVA/4.5KW UPS 230V/400V LCD standard model (no internal battery)
01201057	Liebert® ITA 5KVA/4.5KW UPS 230V/400V LCD long backup model (no internal battery)
01200858	Liebert® ITA 6KVA/4.8KW UPS 230V/400V LCD standard model (no internal battery)
01200859	Liebert® ITA 6KVA/4.8KW UPS 230V/400V LCD long backup model (no internal battery)
02352998	Battery Sharing Module for ITA 5/6KVA Long backup model
02352301	Single unit PDU for Liebert® ITA (8x C13 + 1 x C19), 2U
02351240	1+1 1PH Parallel POD for Liebert® ITA 5/6KVA (8x C13 + 2 x C19), 2U
02351241	3+1 1PH Parallel POD for Liebert® ITA 5/6KVA (16x C13 + 3 x C19), 4U
02351254	3+1 3PH Parallel POD for Liebert® ITA 5/6KVA (16x C13 + 3 x C19), 4U
04118941	Parallel communication cable kit for Liebert® ITA 5/6/10KVA, 2pcs required for 1+1, 3pcs for 2+1, and 3pcs for 3+1
04117133	Battery connection cable for Liebert® 5/6KVA LB model to p/n: 02351253 external battery cabinet
Liebert® ITA 10KVA 3x1 or 1x1 (On-Line Double Conversion Paralleleable PF0.9 UPS) (1 year warranty)	
01200610	Liebert® ITA 10KVA/9KW UPS 230V/400V LCD standard model (no internal battery)
01200679	Liebert® ITA 10KVA/9KW UPS 230V/400V LCD long backup model (no internal battery)
02352999	Battery Sharing Module for ITA 10KVA Long backup model
02352236	1+1 1PH Input Parallel POD for Liebert® ITA 10KVA (8x C13 + 4 x C19), 3U
02352237	1+1 3PH Input Parallel POD for Liebert® ITA 10KVA (4x C13 + 4 x C19), 3U
02352301	Single unit PDU for Liebert® ITA (8x C13 + 1 x C19), 2U
04118941	Parallel communication cable kit for Liebert® ITA 5/6/10KVA, 2pcs required for 1+1, 3pcs for 2+1, and 3pcs for 3+1
04118942	Battery connection cable for Liebert® 10KVA LB model to p/n: 02351253 external battery cabinet
Liebert® ITA 16/20KVA 3x3 or 3x1 (On-Line Double Conversion Paralleleable PF0.9 UPS) (1 year warranty)	
01200758	Liebert® ITA 16KVA/14.4KW UPS 400V LCD long backup model (no internal battery)
01200782	Liebert® ITA 20KVA/18KW UPS 400V LCD long backup model (no internal battery)
02352814	Liebert® ITA 16/20KVA Service Bypass Panel, 3U
02352303	Liebert® ITA 16/20KVA 1+1 Parallel Service Bypass Panel, 6U
09060271	Bypass feedback block option for ITA 16/20KVA, 3pc required
04118928	Parallel cable kit for ITA 16/20KVA, 2pcs required for 1+1, 3pcs for 2+1, and 3pcs for 3+1
04118929	LBS cable kit for ITA 16/20KVA
04116598	Battery connection cable for Liebert® 16/20KVA to p/n: 02351253 external battery cabinet

Note: Liebert® ITA does not include internal battery

Liebert® ITA Accessories (for all Liebert® ITA models)

Part Number	Description
02351253	External battery cabinet for Liebert® ITA, 2U
02351879	10Amp External Battery Charger for Liebert® ITA, 2U
02351817	SIC card for SNMP/WEB Management for Liebert® ITA
02311646	RDU-SIC card for SNMP/WEB Management w/Environmental and PDU Management
02311720	Temperature/Humidity sensor for RDU-SIC card
02311725	Temperature sensor for RDU-SIC card
02354061	Adjustable rail kit for Liebert® ITA
02351874	Dry Contact Card for Liebert® ITA
02350376	MODBUS card for Liebert® ITA
02351786	RS-RS232 to RS-485 Kit for Liebert® ITA

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