Liebert® ITA

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.

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%-94.5% 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 single-phase and 3-phase input power
- Optional strong charging capability effectively reduces battery recharging time



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



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; one year warranty for 10, 16 and 20kVA models

The Liebert ITA Series is Ideally Suited for

- Small computer rooms requiring long backup time (>30 minutes)
- Branch offices
- Servers
- Network computers and peripherals
- Storage device
- VolP





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							1	
Specifications	51	«VΑ	61	kVA	16kVA	20kVA		
Model	Standard	Standard Long back-up Standard Long back-up Standard					Long back-up	Long back-up
Part Number	01201056	01201057	01200858	01200859	01200610	01200679	770 01200758	01200782
Input parameters								
Rectifier Type								
Rate Voltage		230 / 400V/		400VAC 3-phase	e, 4-wire system			
Input Voltage Range		Single-phase, 12	20VAC to 288VAC	3-phase, 228V	/AC to 478VAC			
Input Frequency Range		45Hz t	o 65Hz		45Hz	to 65Hz	45Hz t	o 70Hz
Input Power Factor			Single-phase ≥ 0.	99 / 3-phase ≥ 0.95			Full Loa	d > 0.99
Battery								
Battery Type			Sealed, r	non-spillage, mainte	nance-free lead-a	cid battery		
Charging Capability	< 3hrs f	or recharging to 90%	% capacity (standa	rd mode)		harging to 90% andard mode)	4.5kW, max charging power	
Runtime @ pf 0.9 with 1 Battery Cabinet		Standa	ard battery cabine	t: ≤5 minutes (5 / 10	OkWA)		-	-
External Battery Cabinet		02351253 (16 blocks x 12V x	7.2Ah), Min. Qty Re	quired: ITA 5/6/10	KVA - 1pc; ITA 16 / 2	0kVA - 2pcs	
Battery Dimensions: H x W x D (mm)				85 (2U) x	435 x 640			
Battery Weight (kg)				5	0			
Output parameters								
Rated Power	5kVA	/ 4.5kW	6kVA	/4.8kW	10kV	A / 9kW	16kVA / 14.4kW	20kVA / 18kW
Rated Voltage			Single-phase, 2		3-phase in / out and 3-phase in / Single-phase out			
Voltage Stability					1	%		
Frequency Stability								
Output Voltage THD			< 3% linear load, <		< 2% linear load, <	5% non-linear load		
Load Crest Factor								
Step Load Performance								
Overload Capacity Performance (% rated load)	125% for 1min 125 to 15					5% for 5min 0% for 1min or 500ms	105 to125% for 5min 125 to150% for 1min > 150% for 200ms	
System parameters and standard								
Conversion Type								
Parallel Operation								
Form Factor			Tower	available				
System Efficiency		> 9	2%	2.5%	Up to 94%			
Transfer Time (power failure)				No transfer time,	on-line operation			
Noise		< 50	0dB	5dB	≤ 5	8dB		
Language				Chinese				
Standards / Conformity								
EMC		I	EC / EN 62040-2, I	2, YD / T1095-200	8			
Surge Protection								
Protection Level								
Unit Dimensions: H x W x D (mm)	85 (2U) x 435 x 625 85 (2U				435 x 640	130 (3U) x	435 x 750	
Net Weight (kg)	17					0.8	3	35
Warranty		2 ye	ears	1 y	/ear			
Communication and management								
Interface Type			USB / Intellislot	ard / RS485 Card)				
Management Software			·	·				
Environmental parameters								
Operating Temperature				0 to	40°C			
Relative Humidity	5 to 95%, non-condensing							
Altitude (m)	1500						20	000

Runtime (in minutes)

5000 / 6000VA									
Load (# of battery cabinets)	4800W (6kVA only)	4500W	3500W	2500W	1500W	1000W	700W		
1	4.2min	5min	8min	14min	30min	55min	1h20m		
2	9.2min	11min	16min	28min	60min	1h50m	2h40m		
3	20min	24min	34min	52min	1h44m	3h	4h50m		
4	30min	36min	46min	1h20m	2h30m	3h50m	6h20m		
5	35min	42min	52min	1h30m	2h34m	4h28m	7h6m		
6	40min	48min	1h6m	1h44m	3h26m	5h36m	7h38m		
7	44min	52min	1h10m	1h50m	3h40m	5h40m	8h		
8	58min	1h10m	1h40m	2h20m	3h55m	5h50m	8h30m		

Note: Battery cabinet = 02351253

10000VA						
Load (# of battery cabinets)	9000W	7000W	5000W	3000W	2000W	1400W
2	5.5min	8min	14min	30min	55min	1h20m
3	12min	17min	26min	52min	1h30m	2h25m
4	18min	23min	40min	1h15m	1h50m	3h10m
5	21min	26min	45min	1h25m	2h14m	3h33m
6	24min	33min	52min	1h43m	2h48m	3h49m
7	26min	35min	55min	1h50m	2h50m	4h
8	35min	50min	1h10m	1h59m	2h55m	4h15m

Note: Battery cabinet = 02351253



16000VA 20000VA (Requires adding battery cabinets in pairs)												
Load (# of battery cabinets)	18kW	14.4kW	13.5kW	10.8kW	9kW	7.2kW	5.4kW	4.5kW	3.6kW	3kW	1.8kW	1.5kW
2	< 5min	< 5min	< 5min	< 5min	5min	8min	13min	17min	25min	30min	1h	1h25m
4	5min	8min	9min	13min	16min	25min	38min	50min	1h	1h25m	2h30m	3h
6	10min	15min	16min	25min	30min	45min	1h	1h25m	1h48m	2h10m	4h	4h53m
8	17min	25min	27min	38min	50min	1h	1h36m	1h54m	2h30m	3h	5h40m	7h
10	25min	33min	38min	50min	1h	1h30m	2h	2h30m	3h10m	4h	7h17m	8h21m







5kVA / 6kVA 10kVA 16 / 20kVA

Product List

Part Number	Description
Liebert ITA 5/6K	VA 3x1 or 1x1 (On-Line Double Conversion Parallelable 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
Liebert ITA 10KV	'A 3x1 or 1x1 (On-Line Double Conversion Parallelable PF0.9 UPS)
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
01200775	Liebert ITA 10KVA/9KW UPS 230V/400V standard model (no battery)
01200770	Liebert ITA 10KVA/9KW UPS 230V/400V long backup model (no battery)
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
Liebert ITA 16/20	OKVA 3x3 or 3x1 (On-Line Double Conversion Parallelable PF0.9 UPS)
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 feedbak 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 one to multiple for Liebert 16/20KVA

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

Emerson Network Power Asia

Australia Pakistan T: 1800-065345 T: 92-42-36622526 to 28 F: 61-2-97438737 F: 92-42-36622530 Indonesia Philippines T: 62-21-2513003 T: 63-2-7207400 F: 62-21-2510622 F: 63-2-6203693 Singapore Japan T: 81-3-54038594 T: 65-64672211 F: 81-3-54032924 F: 65-64670130 Korea Thailand T: 82-2-34831500 T: 66-2-6178260 F: 82-2-5927883 F: 66-2-6178277 to 78 Malaysia Vietnam T: 603-78845000 T: 84-4-37628908 F: 603-78845188 F: 84-4-37628909 **New Zealand** T: 64-3-3392060

While every precaution has been taken to ensure the accuracy and completeness of this literature, Emerson Network Power assumes no responsibility and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Emerson, Business-Critical Continuity and Emerson Network Power are trademarks of Emerson Electric Co. or one of its affiliated companies.

©2012 Emerson Electric Co. All rights reserved throughout the world. Specifications subject to change without notice.

Emerson Network Power.

The global leader in enabling Business-Critical Continuity™.

AC Power

F: 64-3-3392063

Connectivity

DC Power

Embedded Computing

Embedded Power

Industrial Power

Infrastructure Management & Monitoring

Outside Plant

Power Switching & Controls

Precision Cooling

Racks & Integrated Cabinets

Services

www.EmersonNetworkPower.Asia