

Liebert® ITA

True On-line Double Conversion Parallelable UPS

5kVA ■ 6kVA ■ 10kVA ■ 16kVA ■ 20kVA

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



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



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
- VoIP



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	770 01200758	01200782
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	
Runtime @ pf 0.9 with 1 Battery Cabinet	Standard battery cabinet: ≤ 5 minutes (5 / 10kVA)						-	-
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	ICE / EN 62040-2, 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	