

# Liebert® ITA

## True On-line Double Conversion Parallelable UPS

5kVA ■ 6kVA ■ 16kVA ■ 20kVA

AC Power for Business-Critical Continuity™



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 more than 92% 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 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
- VoIP

#### 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
- 16kVA and 20kVA

# Technical Specifications

Specifications	5kVA		6kVA		10kVA		16kVA	20kVA
Model	Standard	Long back-up	Standard	Long back-up	10kVA models - not for Distribution in Australia & NZ		Long back-up	Long back-up
Part Number	01200311	01200343	01200456	01200461			01200758	01200782
<b>Input parameters</b>								
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 55Hz				45Hz to 65Hz		45Hz to 70Hz	
Input Power Factor	Single-phase $\geq 0.99$ / 3-phase $\geq 0.95$						Full Load $> 0.99$	
<b>Battery</b>								
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: $\leq 5$ minutes (5 / 10kVA)							
External Battery Cabinet	02351253 (16 blocks x 12V x 7.2Ah), Min. Qty Required: ITA 5 / 10kVA - 1pc; ITA 16 / 20kVA - 2pcs							
Battery Dimensions: H x W x D (mm)	85 (2U) x 435 x 640							
Battery Weight (kg)	50							
<b>Output parameters</b>								
Rated Power	5kVA / 4.5kW		6kVA/4.8kW		10kVA / 9kW		16kVA / 14.4kW	20kVA / 18kW
Rated Voltage	1-phase 230V						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		105 to 125% for 5min 125 to 150% for 1min > 150% for	
<b>System parameters and standard</b>								
Conversion Type	On-line double conversion							
Parallel Operation	3+1 parallel operation				1+1 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		$\leq 58$ dB	
Language	English / Chinese							
Standards / Conformity	AS/IEC 62040-1 (safety), AS/IEC 62040-2 (EMC class C2)							
EMC								
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			
<b>Communication and management</b>								
Interface Type	USB / Intellislot (Dry Contact / SNMP Card / Modbus Card / RS485 Card)							
Management Software	SiteMonitor							
<b>Environmental parameters</b>								
Operating Temperature	0 to 40°C							
Relative Humidity	5 to 95%, non-condensing							
Altitude (m)	1500						2000	



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 Po Box 5322, Daisy Hill QLD 4127

## 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=U16-07C1

10kVA models - not for Distribution in Australia & NZ						
	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=U16-07C1

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 models -  
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16 / 20kVA



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## Product List

Part Number	Description
01200580	Liebert ITA 5kVA / 4.5kW UPS 230V / 400V <i>standard model - no internal battery</i>
01200582	Liebert ITA 5kVA / 4.5kW UPS 230V / 400V <i>long backup model - no internal battery</i>
01200456	Liebert ITA 6kVA / 4.8kW UPS 230V / 400V <i>standard model - no internal battery</i>
01200461	Liebert ITA 6kVA / 4.8kW UPS 230V / 400V <i>long backup model - no internal battery</i>
02351252	LCD option for Liebert ITA 5kVA
02351549	LCD option for Liebert ITA 6kVA
02352301	Single unit PDU for Liebert ITA (8 x C13 + 1 x C19), 2U
02351240	1 + 1 1PH Parallel POD for Liebert ITA 5 / 6kVA (8 x C13 + 2 x C19), Support 6kVA N+1 Redundancy, 2U
02351241	3 + 1 1PH Parallel POD for Liebert ITA 5 / 6kVA (16 x C13 + 3 x C19), Support 18kVA N+1 Redundancy, 4U
02351254	3 + 1 3PH Parallel POD for Liebert ITA 5 / 6kVA (16 x C13 + 3 x C19), Support 18kVA N+1 Redundancy, 4U
04118403	1 + 1 parallel communication cable kit for Liebert ITA
04118404	2 + 1 parallel communication cable kit for Liebert ITA
04118405	3 + 1 parallel communication cable kit for Liebert ITA
01200775	Liebert ITA 10kVA / 9kW UPS 230V / 400V <i>standard model - no internal battery</i>
01200770	Liebert ITA 10kVA / 9kW UPS 230V / 400V <i>long backup model - no internal battery</i>
02352238	LCD option for Liebert ITA 10kVA
02352236	1 + 1 1PH Input Parallel POD for Liebert ITA 10kVA (8 x C13 + 4 x C19), Support 10kVA N+1 Redundancy,
02352237	3U 1 + 1 3PH input Parallel POD for Liebert ITA 10kVA (4 x C13 + 4 x C19), Support 10kVA N+1 Redundancy, 3U
01200758	Liebert ITA 16kVA / 14.4kW UPS 400V LCD <i>long backup model - no internal battery</i>
01200782	Liebert ITA 20kVA / 18kW UPS 400V LCD <i>long backup model - no internal battery</i>
02352814	Liebert ITA 16 / 20kVA Service Bypass Panel, 3U
02352303	Liebert ITA 16 / 20kVA 1+1 Parallel Service Bypass Panel, Support 20kVA N+1 Redundancy, 3U
09060271	Bypass feedback block option for ITA 16 / 20kVA, 3 pieces required
04118928	Parallel cable kit for ITA 16 / 20kVA
04118929	LBS cable kit for ITA 16 / 20kVA

Note: Liebert ITA does not include internal battery

**Emerson Network Power.**  
The global leader in enabling *Business-Critical Continuity™*.

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- Services
- Surge Protection

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10kVA models -  
not for Distribution in -  
Australia & NZ

## Liebert ITA Options

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
02354061	Adjustable rail kit for Liebert ITA
02351874	Dry Contact Card for Liebert ITA
02350376	MODBUS card for Liebert ITA



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