



Liebert®

S600E

20KVA (3in-3out)

Efficient & Robust UPS
for Critical Applications



Liebert® S600E™

20KVA (3in-3out)

In today's dynamic world, it is not enough for enterprises to have basic power protection. With digital trends constantly emerging and transforming the way you do business, business continuity is all the more vital. You simply cannot afford downtime in your critical system or waste time recovering these systems after a disruption. What you need is a robust, high-speed, reliable UPS system, which offers perennial, round-the-clock protection to diverse application needs.

Our Solution

The Liebert® S600E™ is a fully-digital, highly reliable, double conversion UPS solution that delivers clean and consistent power. This highly efficient solution is ideal for various deployments, whether it's IT racks, network closets, automation control systems, and precision instruments to small-sized control rooms among other edge applications.

- Cutting-edge design enables seamless integration into various ecosystems
- Tailored for global deployment in a low carbon, compact footprint

The ultimate level of engineering and dynamics that have gone beyond the development of this next-generation, innovative product facilitate top-notch availability and excellent performance at a low cost of ownership, giving you ultimate peace of mind.

Application Areas

- Edge Networks
- Data Centers
- Analytical instruments
- Server Farms
- Workstations
- Telecom

Inbuilt isolation transformer

Unity power factor

Efficiency >91% with inbuilt transformer

Higher operating temp- 0° to 50°

Settable battery options



20 kVA

Operates in a parallel configuration upto 4 nos

LI-ion battery compatible

Graphical screen system LCD display provides user-friendly operating interface

Integrated SNMP for monitoring



The Most Efficient UPS

Liebert® S600E™ offers best-in-class efficiency of up to 91% over a wide range of load conditions, resulting in significant OPEX cost savings. S600E's integrated Smart Sleep technology in ECO mode provides a superlative efficiency of up to 94%.

Available in different wattage variations, Liebert® S600E is ideal in edge of networks, light industrial applications and data centers, blending easily into any virtualized environment and providing comprehensive power protection at lower operating costs.

Reliability in a Compact Footprint:

- Fully-digital control with high output voltage precision.
- Manages all the nine power problems including sagging, spikes, and fluctuations.
- Built-in Ethernet port includes compatibility with intelligent cards (SIC card, RDU_SIC cards, etc.,) with browser support.
- Built-in-power charger for fast charging reduces battery charging time.

High Availability

Inbuilt isolation transformer

Protects UPS and load from high voltage fluctuations.

Early Warning of UPS System

Status: Multiple audible and visual alarms immediately alert you to critical issues.

Periodic Battery Testing

Provides automatic and manual self-diagnostic battery testing for peace of mind.

Power-Factor Correction

Prevents noise, harmonics, and distortion from being passed on to connected loads or from being fed back to the utility.

Lightning and Surge Protection

The transient voltage surge suppression circuitry inside the Liebert® S600E provides additional protection for the connected equipment.

Wide Input Voltage Window

Prolongs battery life by allowing the UPS to maximize the use of utility power before transferring to the battery when the input voltage exceeds the specified limits.



Technical Specifications

	Model	S600E 20KVA (3in-3out)
System parameter	Rating	20KVA/20kw (3in-3out)
	Technology	IGBT based Double conversion PWM based online UPS
	Parallel mode	4 (N+1)
	Isolation transformer	At input side
	Installation mode	Tower
Input	Rated voltage	400VAC 3-phase,4-wire
	Volatge Range	Three phase 305VAC -498VAC at 100% load,180VAC -498VAC at 50% load
	Rated Frequency	50Hz/60Hz
	Frequency Range	40Hz ~ 70Hz
	Thdi	<5%
	Power factor	0.99 at full load
	Input phase reversal correction	Optional
Output	Rated power	20KVA/20kw
	Voltage	Three Phase 380/400/415 Vac
	Frequency synchronization range	Rated frequency±3Hz. Configurable range: ±0.5Hz ~ ±5Hz
	Waveform	Pure sine waveform
	Rated Power Factor	Unity
	Crest Factor	3:1
	Voltage harmonic distortion	< 2% (linear load)
	Voltage Regulation	1%
	Dynamic response recovery time	40ms
	Inverter Overload Capability on utility mode	At 25°C : 105% ~125%-10min,125%~150%-1min; 150% -more than 200ms
	Inverter Overload Capability on battery mode	At 25°C :105% ~125%-60~ 30 s; >125%- more than 200ms
Bypass	Seprate bypass	Yes
	Maintenance bypass	Inbuilt
	Static bypass	Inbuilt
Efficiency	ECO Mode	>98%
	Online mode (AC-AC)	> 92%
	Inverter Efficiency(DC-AC)	>94%
Battery	Type	Sealed, lead-acid,Tubular
	No's of Batteries	24(1),30(1),32,34,36,38,40; 32 by default
	Battery charging capacity	13A
	Common battery	Yes
Transfer Time	Mains - Battery	0ms
	Inverter-Bypass	Synchronous transfer: ≤0ms
		Asynchronous transfer (default): ≤20ms
Noise		<65db
Panel display mode	Display type	Graphical LCD display
	No of events stored	Max 256
	Orientation	Gravity sense
Environmental parameter	Operating temperature	0°C ~ 50°C(2)
	Storage temperature	-40°C ~ +70°C (battery excluded); -25°C ~ +55°C (battery included)
	Relative humidity	5%RH ~ 95%RH, non-condensing
	Altitude	≤3000m; derating when higher than 3000m
Mechanical parameter	W*D*H (mm)	335*654*1300
	Weight (Kg)	175
	Ventilation	Forced -air cooled
	Ingress protection level	IP20
	Color	Powder coated Black Texture finish
	Cable entry	Rear bottom
Network Management	Smart RS232/USB	Supports Windows 2000/2003/XP/Vista/2008,Windows 7,Linux,unix and MAC
	SNMP	Inbuilt for web monitoring
	Optional SNMP	Power management from SNMP manager and web browser
	Management software	Site monitor
	Modbus	Inbuilt via multifunction port

Note : (1) UPS power will derate to 70% of the total capacity
(2) UPS power will derate to 80% at 40deg, and 70% at 50deg



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