



Liebert®

S600E  
10-20KVA (3in-3out)  
Efficient & Robust UPS  
for Critical Applications



# Liebert® S600E™

## 10-20KVA (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



10-20 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 10KVA (3in-3out)	S600E 20KVA (3in-3out)
<b>System parameter</b>		
Rating	10KVA/10KW	20KVA/20KW
Technology	IGBT based Double conversion PWM based online UPS	
Parallel mode	4 (N+1)	
Isolation transformer	At input side	
Installation mode	Tower	
<b>Input</b>		
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	
<b>Output</b>		
Rated power	10KVA/10KW	20KVA/20KW
Voltage	Three Phase 380/400/415 Vac	
Frequency synchronization range	Rated frequency±3Hz. Configurable range: ±0.5Hz ~ ±5Hz	
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%- 5min; 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	
<b>Bypass</b>		
Seperate bypass	Inbuilt	
Static bypass	Inbuilt	
Maintenance bypass	Inbuilt	
<b>Efficiency</b>		
ECO Mode	>94%	>98%
Online mode (AC-AC)		> 92%
Inverter Efficiency(DC-AC)		>94%
<b>Battery</b>		
Type	Sealed, lead-acid,Tubular	
No's of Batteries	24(1),32,40 ; 32 by default	
Battery charging capacity	13A	
Common battery	Available	
<b>Transfer Time</b>		
Mains - Battery	0ms	
Inverter-Bypass	Synchronous transfer: ≤0ms Asynchronous transfer (default): ≤20ms	
<b>Noise</b>		
Noise	<65db	
<b>Panel display mode</b>		
Display type	Graphical LCD display	
No of events stored	Max 256	
Orientation	Gravity sense	
<b>Environmental parameter</b>		
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	
<b>Mechanical parameter</b>		
W*D*H (mm)	335*654*1300	
Weight (Kg)	150	175
Ventilation	Forced -air cooled	
Ingress protection level	IP20	
Color	Powder coated Black Texture finish	
Cable entry	Rear bottom	
<b>Network Management</b>		
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

