



Liebert®

S600

10KVA-20KVA

Efficient & Robust UPS  
for Critical Applications



*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® S600™ 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



10-20kVA

Operates in a parallel configuration upto 4 nos

LI-ion battery compatible

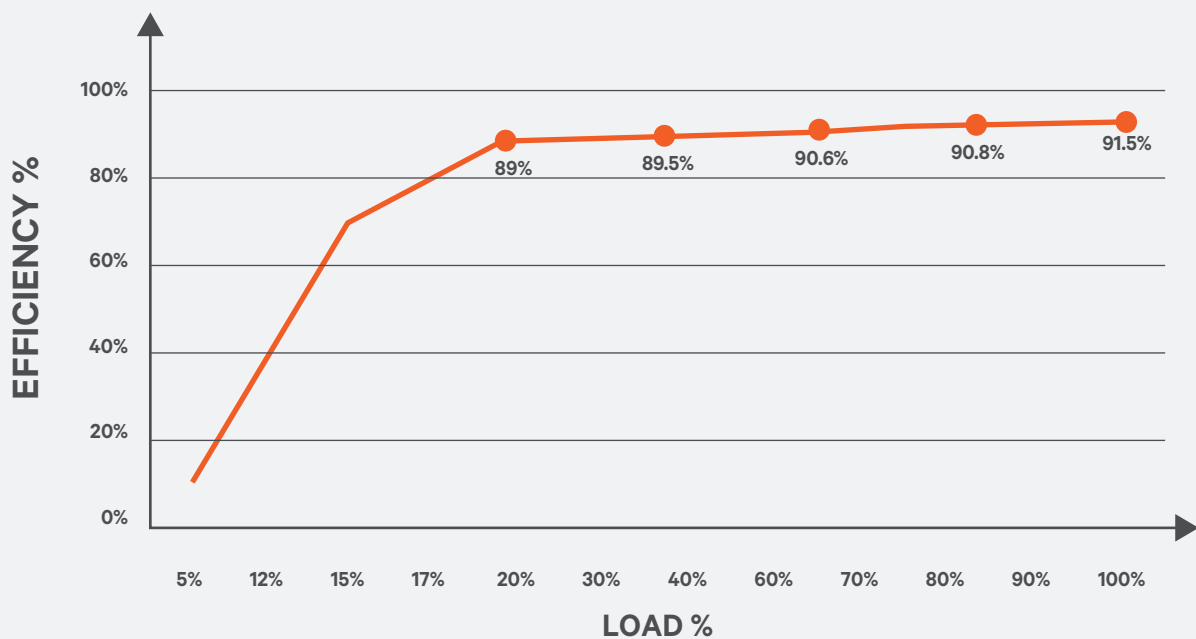
Graphical touch screen system LCD display provides user-friendly operating interface

Integrated SNMP for monitoring



### The Most Efficient UPS

Liebert® S600™ offers best-in-class efficiency of up to 91% over a wide range of load conditions, resulting in significant OPEX cost savings. S600's integrated Smart Sleep technology in ECO mode provides a superlative efficiency of up to 94%.



Available in different wattage variations, Liebert® S600 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.
- Prolonged backup time through cascaded connection.

### 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® S600 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

Rating		10KVA	20KVA
<b>System parameter</b>	Configuration	3in-1out	3in-1out   3in-3out
	Rated voltage	400vac 3-phase,4 wire	400Vac 3-Phase,4 wire
	Volatge Range	176 -288VAC at 100% load; 100VAC - 288VAC at 50% load	
<b>Input</b>	Rated Frequency	50Hz/60Hz	
	Frequency Range	40Hz ~ 70Hz	
	Power factor	>=0.95 at full load	
	Input phase reversal correction	Yes	No
	Rated power	10KVA/10kW	20KVA/20kW
	Voltage	220/230/240VAC (single phase)	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	
<b>Output</b>	Voltage harmonic distortion	< 2% (linear load)	
	Voltage Regulation	2%	1%
	Dynamic response recovery time	60ms	40ms
	Isolation transformer	Inbuilt at UPS output   Inbuilt at UPS input	
	Inverter Overload Capability the utility mode	At 25°C: 105% ~ 125%- 5min; 125% ~ 150%-1min; 150%- more than 200ms	
	Inverter Overload Capability the battery mode	At 25°C :105% ~125%-60~ 30 s >125%- more than 200ms	
	Bypass Voltage range	Upper limit: +10%, +15% or +20%; default: +20% Lower limit: -10%, -20%, -30% or -40%; default: -40%	
<b>Bypass</b>	Seprate bypass	Yes	
	Manual bypass	Inbuilt	
<b>Efficiency</b>	ECO Mode	> 94%	
	Online mode (AC-AC)	> 91%	
	Inverter Efficiency(DC-AC)	88%	88%   >94%
	Type	Sealed, lead-acid,Tubular,LI-ION	
<b>Battery</b>	No.'s of Batteries	12 <sup>(1)</sup> , 16, 20; 16 by default	24 <sup>(1)</sup> , 32, 40; 32 by default
	Battery Fuse disconnecter	Inbuilt	
	Battery charging capacity	8A	13A
	Mains - Battery	0ms	
<b>Transfer Time</b>	Inverter- Bypass	Synchronous transfer: ≤0ms Asynchronous transfer (default): ≤20ms	
<b>UPS Parallel Numbers</b>		4	
<b>Noise</b>		<65db	
<b>Panel display mode</b>		Graphical LCD display	
<b>Ambient Conditions</b>	Operating temperature	0°C ~ 50°C <sup>(2)</sup>	
	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	
	W*D*H (mm)	550 X 620 X 700	550 X 620 X700   550X620X700
	Weight (Kg)	138	158   170
<b>Mechanical parameter</b>	Ventilation	Forced -air cooled	
	Ingress protection	IP20	
	Color	Powder coated Black Texture finish	
	Cable entry	Rear bottom	
<b>Network Management</b>	Smart RS232/USB	Supports Windows 2000/2003/ and MAC 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, 70% at 50deg

\*conditions apply