



**VERTIV™**

**Liebert®**

S600

10KVA-20KVA

Efficient & Robust UPS  
For Critical Applications



Enabling Tomorrow's  
**CRITICAL EDGE  
INFRASTRUCTURE**



We helped some of the largest names in the industry bring new capacity online faster and at a lower cost when search and social media increased demand for storage and computing.



We were the first to introduce an integrated enclosure system to distributed networks.



Our portfolio spans power, thermal and infrastructure management products, software and solutions.

Protecting your critical technologies takes more than just great software and equipment. It takes a level of experience that only comes from years of finding solutions when the industry needed them most. We were the first to protect mainframes with precision cooling systems.



And now as challenges and demands grow, we continue to find better ways to help you strengthen your most vital applications. Formerly the Network Power business of Emerson, we've brought together the most trusted and experienced names in critical infrastructure.



Complemented by a network of nearly 250 service centers worldwide. It's a combination of experience and resources that allow us to better adapt to what's needed, anticipate what's next and continue to find solutions in ways other companies simply can't.



# Liebert® S600

10KVA-20KVA



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.



# Liebert® S600

10KVA-20KVA



10-20kVA

Inbuilt isolation transformer

Unity power factor

Efficiency >91% with inbuilt transformer

Higher operating temp-0° to 50°

Settable battery options

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

## Application Areas

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

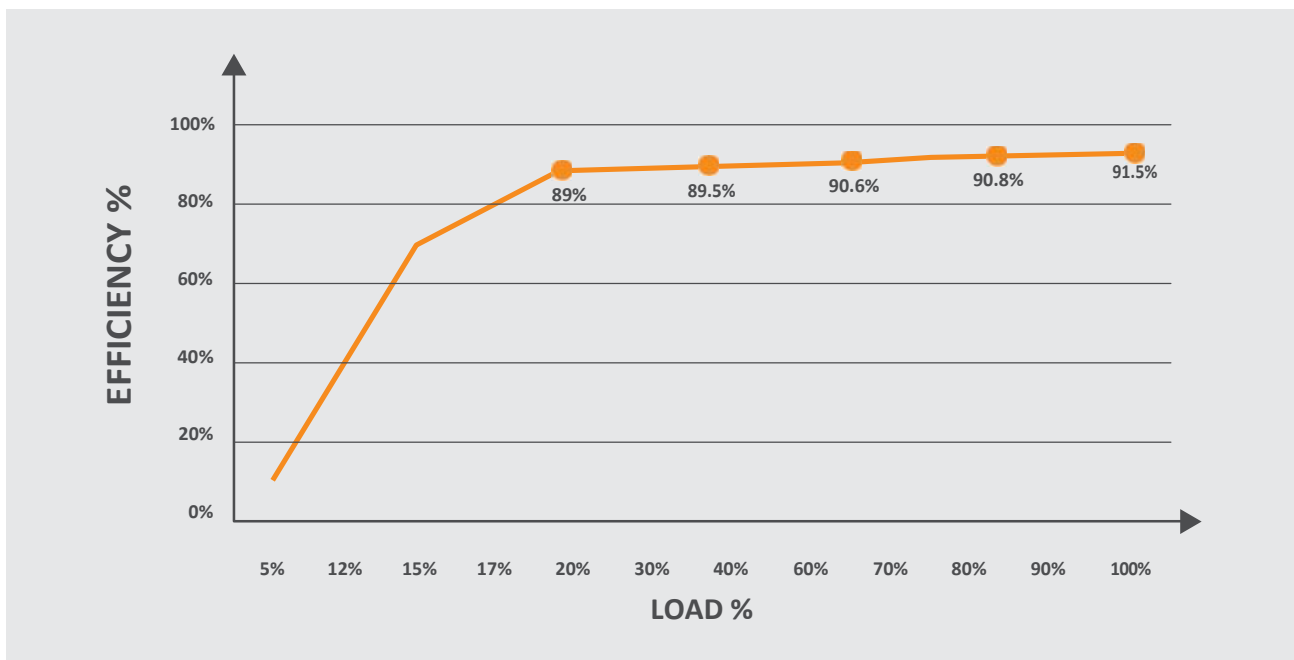
# Liebert® S600

10KVA-20KVA



## 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. S600D's integrated Smart Sleep technology in ECO mode provides a superlative efficiency of up to 94%.



# Liebert® S600

10KVA-20KVA



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

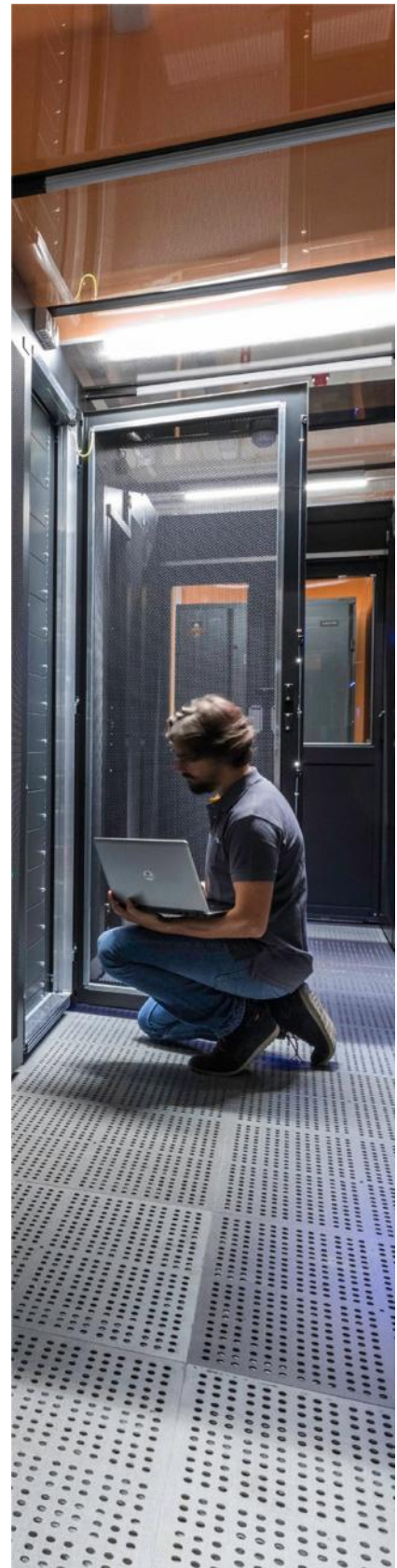
Prevents noise, harmonics, and distortion from being passed on to connected loads or from being fed back to the utility.

### Lightning and Surge Protection

The transient voltage surge suppression circuitry inside the Liebert® S600D 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		10KVA	20KVA
	Rating	10kVA (3in - 1out)	20kVA (3in - 1out)
Input	Rated voltage	400vac 3-phase,4 wire	400Vac 3-Phase,4 wire
	Volatge Range	176 -288VAC at 100% load; 100VAC - 288VAC at 50% load	
	Rated Frequency	50Hz/60Hz	
	Frequency Range	40Hz ~ 70Hz	
	Power factor	≥0.95 at full load	
	Input phase reversal correction	Yes	No
	Output	Rated power	10KVA/10kW
Voltage		220/230/240VAC (single phase)	
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		2%	
Dynamic response recovery time		60ms	40ms
Isolation transformer		Inbuilt at UPS output	
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		Bypass Voltage range	Upper limit: +10%, +15% or +20%; default: +20% Lower limit: -10%, -20%, -30% or -40%; default: -40%
	Seprate bypass	Yes	
	Manual bypass	Inbuilt	
Euiciency	ECO Mode	> 94%	> 94%
	Online mode (AC-AC)	> 91%	> 91%
	Inverter Euiciency(DC-AC)	88%	88%
Battery	Type	Sealed, lead-acid,Tubular,LI-ION	
	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
Transfer Time	Mains - Battery	0ms	
	Inverter- Bypass	Synchronous transfer: ≤0ms	
		Asynchronous transfer (default): ≤20ms	
UPS Parallel Numbers		4	
Noise		<65db	
Panel display mode		Graphical LCD display	
Ambient Conditions	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	
Machanical parameter	W*D*H (mm)	550 X 620 X 700	550 X 620 X700
	Weight (Kg)	138	158
	Ventilation	Forced -air cooled	
	Ingress protection	IP20	
	Color	Powder coated Black Texture finish	
	Cable entry	Bottom	

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



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