



Liebert®

POWERBANK 600

Efficient & Robust Online 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.





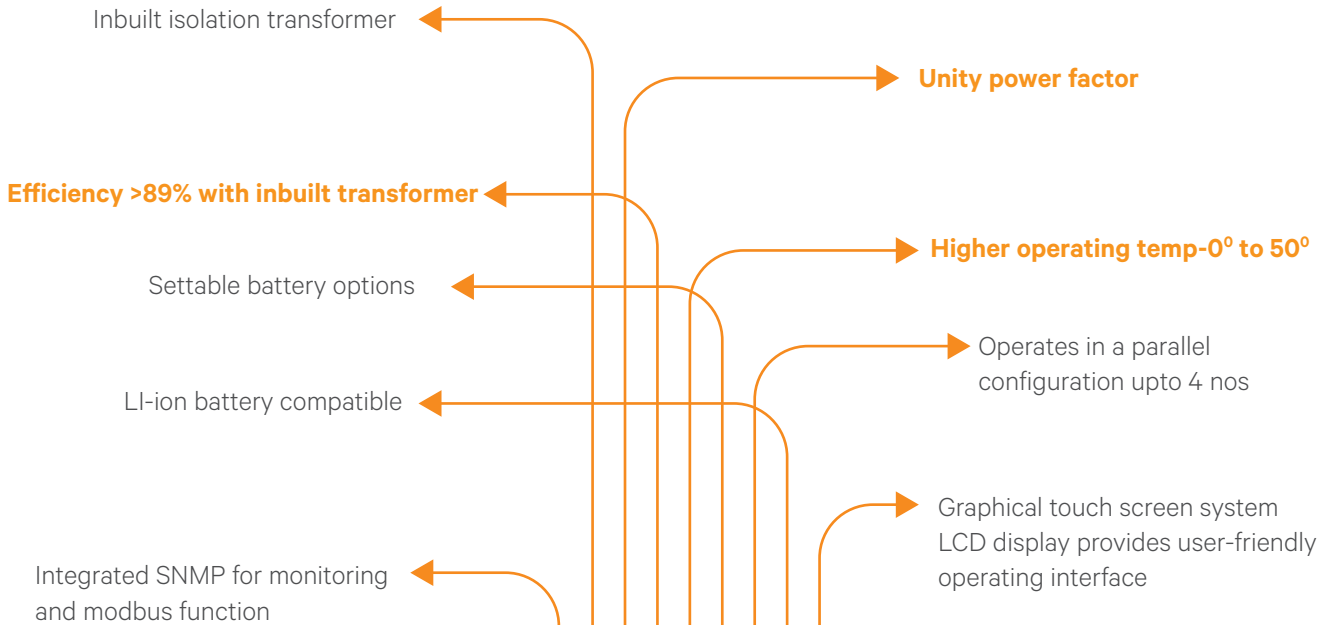
In today's dynamic world, it is not enough for enterprises to have basic power protection. With digital trends constantly emerging and transforming the way you do business, business continuity is all the more vital. You simply cannot afford downtime in your critical system or waste time recovering these 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® Powerbank 600 is a fully-digital, highly reliable, True Online 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.



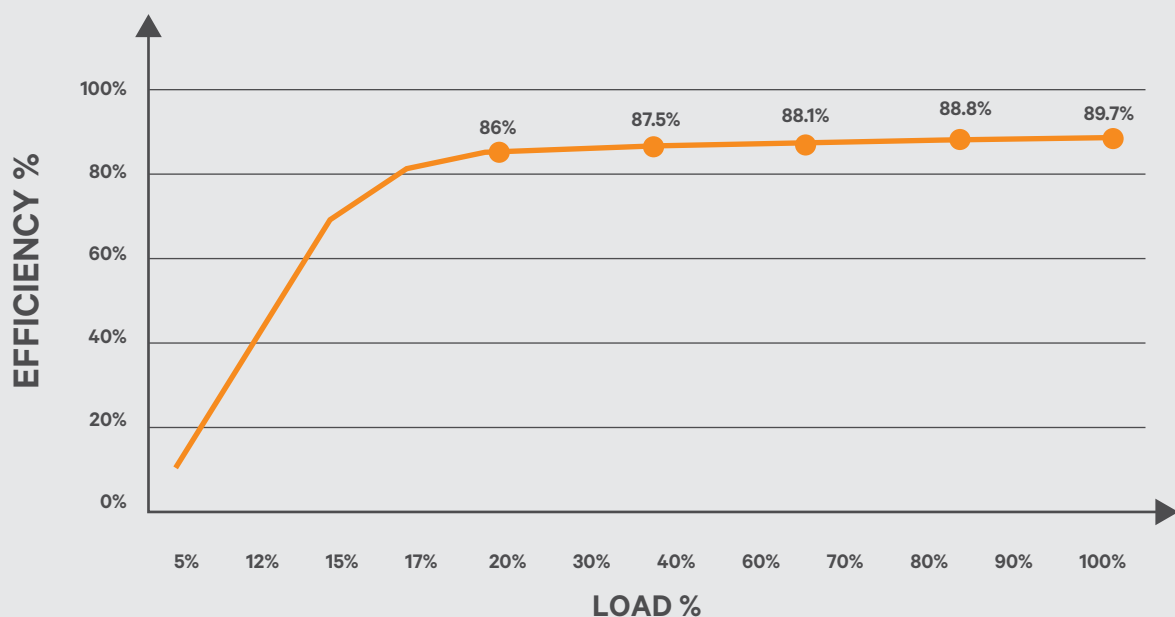
Application Areas

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



The Most Efficient UPS

Liebert® Powerbank 600 offers best-in-class efficiency of up to 89% over a wide range of load conditions, resulting in significant OPEX cost savings. Liebert® Powerbank 600's integrated Smart Sleep technology in ECO mode provides a superlative efficiency of up to 94%.



Available in different wattage variations, Liebert® Powerbank 600 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® Powerbank 600 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	POWERBANK 600
	Rating	6kVA (1in - 1out)
Input	Rated voltage	230VAC 1-phase,3-wire
	Voltage Range	176 -288VAC at 100% load; 100VAC - 288VAC on 50% load
	Rated Frequency	50Hz/60Hz
	Frequency Range	40Hz ~ 70Hz
	Power factor	≥0.99 at full load , ≥0.98 at full load ,
Output	Rated power	6KVA/6kW
	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	< 1% (linear load)
	Voltage Regulation	1%
	Dynamic response recovery time	60ms
	Isolation transformer	Inbuilt
	Parallel function	Max 4 (N+1)
	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
	Output waveform	Pure Sinewave
Bypass	Seperate bypass	No
	Static bypass	Inbuilt
	Manual bypass	Inbuilt
Efficiency	ECO Mode	94%
	Online mode (AC-AC)	> 89%
	Inverter Efficiency(DC-AC)	>88%
Battery	Type	Sealed, lead-acid, Tubular, LI-ION
	No's of Batteries	12(1), 16, 20; 16 by default
	Battery Fuse disconnecter	Inbuilt
	Battery charging capacity	5A
Transfer Time	Mains - Battery	0ms
	Inverter-Bypass	Synchronous transfer: ≤0ms Asynchronous transfer (default): ≤20ms
Noise		<65db
Panel display mode		Graphical LCD display
Ambient conditions	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)	500 X 525 X 400
	Weight (Kg)	85Kg
	Ventilation	Forced -air cooled
	Ingress protection	IP20
	Color	Powder coated Black Texture finish
	Cable entry	Bottom
Network Management	Smart RS232/USB	Supports Windows 2000/2003/XP/Vista/2008, Windows 7, Linux, unix and MAC
	SNMP	Inbuilt for web monitoring only
	Optional SNMP	Power management from SNMP manager and web browser
	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