VERTIV.

Liebert™

APS
5/10/20 kVA

Liebert APS
(5-20 kVA UPS)

A Modular Power Protection Solution for today and the Future

LOW TCO

With the Liebert APS, you can maintain flexibility for the future and ensure the availability of your critical systems– all without sacrficing cost or energy efficiency.

Additional features to help lower costs include:

Industry-leading efficiency:
- 91.5-92% efficiency: 200-240V in/out transformer- free systems.
- 88.5-89.9% efficiency: transformer-based systems.
- Scalability that allows you to cost-effectively add power capacity or battery modules as needed.
- Modular batteries, controls and power components to help reduce maintenance costs with user replacement.
- Two year hassle-free factory warranty program for repair or replacement of your Liebert APS UPS.
- Module-level redundancy eliminates the expense of purchasing and planning for any additional cabinets.
- Reduced installation time and cost because units are shipped pre-con figured and factory tested, no need for on-site assembly.
- Everything you need for efficiency and availability in one box: power modules, batteries, maintenance bypass, and distribution in a single, small-footprint cabinet.
- Integral battery monitoring with temperature compensated charging to prolong battery life and help reduce replacement costs.

RELIABILITY AND SERVICEABILITY

At the core of your business sits your data center and the services running in it. With the Liebert APS UPS solution, you get peace of mind that your critical IT functions – and your business – will be available and running as expected through power disruptions, fluctuations and outages.

- Internal redundancy capability (N+2/20kVA) enhances reliability and provides multiple layers of power protection.
- No single point of failure - Full redundant design allows the critical load to run on conditioned power if there is a failure of any component in the system.
- Configurable design allows you to customize the Liebert APS UPS for your desired level of capacity and redundancy.
- Fault-tolerant design, enables the power, battery and control modules to take themselves offline if there is a problem, without sacrificing overall system integrity.
- Superior overload capabilities, able to provide conditioned power to temporary overloads without transfers to/from bypass power.
- Internal wrap-around maintenance bypass and Frame-level bypass with indepen dent controls in separate assembly provide higher reliability and availability.

The Liebert APS UPS can be installed on raised floors, traditional flooring, or in rack enclosures.

Liebert APS
(5-20 kVA UPS)

Liebert APS Specification				
Unit Size, Type	10 Bay	16 Bay	12 Bay	16 Bay
	No Transformer		Tranformer Based	
Frame Rating, kVA/kW	5/4.5, 10/9,15/13.5	15/4.5, 10/9, 15/13.5, 20/185/	4.5, 10/9, 15/13.5 15/	4.5, 10/9,15/13.5,20/18
Input Parameter				
Nominal Input Voltage Range	200/208/220/230/240; Single Phase			
	380/400/415: Three Phase			
Input Voltage Range; Vac	Input Voltage Range Depends on the 0/13 Loading			
Power Factor	Single Phase Input 0.99		Single Phase Input 0.99	
	Three Phase Input 0.95			
Input Frequency Hz	50/60 Hz			
Input Current Distortion THDi	Less than 5%			
Input Frequency Range	40/70 Hz Auto Sensing			
Output Parameter				
Output Voltage Vac	200/208/220/230/240 Vac			
Voltage Regulation %	±3			
Voltage Stability %	±7			
Voltage Recovery Time, ms	560			
Voltage Distortion %	5 3 on Linear Load			
	5 on Non-Linear Load		7 on Non-Linear Load	
Output Frequency; Hz	50/60			
OverLoad Capability %	104% Continuous			
	105%-130% For 1 Min			
	131%-150% For 10 Sec			
	151%-200% for 1 Sec			
	> 201% for 250 msec			
Battery Module				
Lead Acid Batteries Per String	12			
Batteries Cells Per String ,Pieces	72			
Battery Capacity,W	36 W@15 Min rate to 1.67 V Per Cell@ 25 Degree Cel			
Maximum Charging Current	Power Module Internal Charger 1.8 Amps			
	Charger Module 10 Amps			
Nominal Voltage, Vdc	144			
General and Environmental Condition				
Dimension WxDxH in mm	440x712x920			
Operating Temp	0 to 40 Degree Celsius			
Storage Temprature	Without battery: -4 to 140 (-20 to 60)			
	With battery: 5 to 104 (-15 to 40)			
Relative Humidity	0-95% Non Condensing			
Altitude ft (m)	10000 (3000)