



**VERTIV™**

**Liebert™**

Super 400D

10/20 kVA



# Liebert Super 400D

(10/20 kVA)



## FEATURES

- IGBT based rectifier
- 10,20 kVA Models
- Full Digital Signal Processing using the latest DSP technology
- Parallel operation for Redundancy
- Wide Input Voltage Range
- Low Input Current Harmonic Distortion of less than 5%
- Unity Input Power Factor
- High Overload and Short-Circuit Capacities
- Compatible with Engine Generators
- High Reliability for Maximum System Availability
- Handles 3:1 Crest Factor Loads
- Intelligent Battery Management
- LCD Display and Mimic Panel for Real-time information
- Output Isolation between UPS and Critical Load
- Temperature compensated Battery charging to enhance the Battery life
- Battery test facility
- Inverter output short circuit protected
- Rectifier output short circuit protected
- Immune to Reverse phase sequence
- Auto retransfer facility
- Alarms can be stored in the memory
- DSP and Dual microprocessor based system

## APPLICATIONS

- Facility wide networks
- Medical equipment
- Industrial processes
- Large computer room

## True On-line DSP Based UPS with Unity Power Factor

The Liebert Super 400D is a true On-line sine wave UPS system that provides the user with clean computer grade power for continuous operation of his critical load, regardless of any disturbance on the upstream AC power.

The system offers many innovative features to give the user maximum reliability and flexibility at the lowest operating cost. With Liebert Super 400D UPS system, you have complete peace of mind.



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# Liebert Super 400D

## (10/20 kVA)



MODEL	10 kVA	20 kVA
Rating (Kva/Kw)/(VA/W)	10 kVA /8 Kw	20 kVA / 16 Kw
IGBT/SCR Rectifier	IGBT	
O/P Transformer Built in Yes/No	Yes	
<b>PHYSICAL CHARACTERISTICS</b>		
Depth (mm)	650 mm	
Width (mm)	450 mm	
Height (mm)	1150 mm	
Weight (Kgs)	275 kg	
<b>INPUT</b>		
Configuration	3 Ph 4 Wire +PE	
Voltage	400/415 Vac	
Voltage Range	500/280 Vac	
Frequency	50 Hz	
Frequency Range	45 to 55 Hz	
Power Factor	Unity at Rated Load	
Current Distortion ( THDi)	<= 5%	
<b>BATTERY</b>		
No of cells	12 volt/26 Cell	
Type of Battery	SMF/Vrla	
DC Bus Voltage	312 Volt	
Battery Charging Current	4 Amps	7 Amps
<b>OUTPUT</b>		
Voltage	220/230/240 Vac 1 Phase	
Power Factor	0.8	
Voltage Range/Regulation	220/230/240 Vac +/- 1%.	
Frequency	50 Hz	
Max No Units Paralleleable	Parallel Upto 4 Units	
Crest Factor	Yes 3:1	
Slew Rate	1 Hz/Sec	
Voltage Distortion ( THDv)	<2% on Linear Load,<3% On Non Linear Load.	
AC to AC Efficiency	84%	85%
Overload Capacity on On Line Mode and Battery Mode	110% 60 Minutes,125 % 10 Min and 150% 1 Min	
Overload Capacity on Bypass Mode	NA	
<b>SYSTEM CONFIGURATION</b>		
Inverter Transformer Built in	Yes	
Type of Built in Transformer	Galvanic	
<b>ENVIRONMENT</b>		
Acoustic Noise Level from 1m Distance	<=60 dBA	
Operating Temp	0 to 40 Deg c	
Storage Temp	Minus 10 to + 70 Deg c.	
Humidity	0-95 Relative Humidity	
<b>COMMUNICATION</b>		
SNMP/ Ethernet/Web	Yes ( Optional )	
Modbus/Jbus	Yes ( Optional )	
Dry Contact	Yes ( Optional )	
Shutdown Software	Yes ( Optional )	
SMS Facility	Yes ( Optional )	
Serial configuration/USB	Yes.	

\*Specifications are subject to change without any prior notification



VertivCo.com | E-mail : [marketing.india@vertivco.com](mailto:marketing.india@vertivco.com) | Toll free : 1-800-2096070

**Vertiv Energy Private Limited** | Plot C-20, Rd No.19, Wagle Ind Estate, Thane (W), 400604. India

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