

Liebert® HIPULSE-UTM

30kVA - 500kVA

Utmost Reliable Power Solution for Critical Business Applications



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Information Technology

- Large Internet Data centers
- Coloration Facilities
- Server Farms
- Internet Service Providers

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The Liebert® Hipulse-UTM offers a reliable, scalable and user-friendly solution to ensure availability of various critical applications. The Liebert® Hipulse-UTM offers protection to your investment, and provide lower cost of ownership through its digital architecture and range of options which you can customize specifically for your needs.



Telecommunication

- Mobile (3G,4G)
- Fixed (including WLL)
- MSC, BSC centers



Industrial Automation

- Process Control Equipment
- Motion (digital drives and robotics)
- Transport Automation
- Airport automation
- Railways and Road transport automation and ticket booking



Corporate Parks

- Banking, Insurance and Financial Services.
- Credit Card Operation
- Stock Exchange Operation
- Software Development Houses/Software Technology Parks
- BPO / KPO / EPO operations



Building Automation

Access Control Security System Fire Alarm System



Satellite

Uplinking Earth Stations Broadcasting & Entertainment



Medical Diagnostics

Magneto Resonant Imaging CT Scanning/Cath Lab Multiple medical imaging units

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Feature-Loaded UPS

We have studied the emerging needs of our customers and have engineered what we have learned into the new, upgraded Liebert® Hipulse-UTM. Now it offers you more value and power per square meter. You will find that the Liebert® Hipulse-UTM offers unique features that address the needs of you business today and is designed to handle the needs that are anticipated in the future.



Built Investment Protection

- Automatic battery testing
- Field settability of EOD of the battery
- Selectable times for boost charging duration of the battery (15 steps with each step of 1 hour)
- Protection against deep discharge of battery
- Short-circuit proof inverter
- Back-feed protection
- D-level lightning protection
- With 3 auxiliary power supply to ensure redundancy under any condition
- Standard dry contacts
- Choice between 6 or 12 pulse rectifier for 120kVA to 500kVA capacity range
- Choice of array of input harmonic filter options
- Temperature-compensated battery charging (optional)

FEATURES TO PROTECT YOUR NETWORK

- Fully Digital, twin DSP controlled
- Rated at 0.9 output power factor to deliver more active power
- Handle leading power factor loads without KW derating under specified conditions
- On-Line Double Conversion IGBTbased PWM Inverter
- Wide input voltage tolerance (+20/-20%)
- Wide input frequency range of 45Hz to 65Hz
- High overload capability of static bypass (14 times for 10 milliseconds and 10 times for 100 milliseconds)
- Capability to handle:
 High crest factor loads
 100% non-linear loads
 100% unbalanced loads
- Built-in maintenance bypass
- Front access for spares replacement and preventive maintenance
- Easy Dual bus configuration architecture
- Adjustable frequency synchroniza tion window up to 6% in the static bypass
- Field protocols ModBus / Jbus
- Network protocols SNMP
- Overload capability of the UPS: 110% full load for 60 minutes 125% full load for 10 minutes 150% full load for 1 minutes
- Compact footprint

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Selected Configurations

Hipulse U is scalable to maximum 6 units using any of the following configurations to achieve either scalability or redundancy of desired percentage

1+N Configuration with distributed bypass System

- Up to six units in parallel
- 1+N configuration without any kind of centralized static switch
- Augment the system reliability Increase the availability of quality power following the load demand even if it was not forecasted or planned at the beginning of the project: ease of techno-ecnonmic expandability
- Enhanced the maintainability
- The total load is less than or equal to the rating of the single UPS (depending on the desired redundancy level) and is shared among all units

Bypass Mains Normal Mains Normal Mains UPS 2 UPS 6

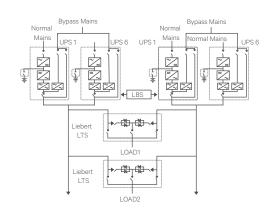
Hot Stand-by Configuration

- Feed one (Priority) or two (Priority and Normal load banks depending on the application need
- Increase the reliability of the priority load
- Enhanced the maintainability and reliability
- Easy connection
- Can be implemented in the existing installation regardless of the UPS size, manufacturer & its control.

Bypass Mains Normal Normal Mains Normal Mains Normal Mains Normal Mains

Dual Bus System with Liebert® LTS, STS2 or Hiswitch2

- Provide supply to the loads from two independent power sources
- Synchronizes the output of two independent bus
- Automatic transfer of the load between the two sources in case of fault using Liebert® LTS
- Increase dramatically the maintainability and reliability



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Liebert® Hipulse U™ Accessories

Intelligent Paralleling

- Intended to increase system efficiency and to reduce the operating hours on the UPS
- This feature will put one or more paralleled units into standby operation when number of redundant modules is above the user-specified threshold

Liebert® Active Filter

 Optional super filter to reduce THDi to <5% and improve input PF up to 0.93 without additional system footprint.

Isolation Transformer

• Additional transformer for output or bypass supply depending on application

Rectifier or Bypass supply

• This allows UPS to be configured in Single or Dual Main supply to ensure system adaptability and reliability

DC Ground Fault Indications

• This provides indication of occurrence of battery ground fault problems

Protection Degree (IP)

• To address stressed environmental conditions, Hipulse-U UPS with higher than IP 20 degree of protection can be made available for most of the kVA ratings

Top Cable Entry

• Available for a wide range of our Hipulse-U ratings

Load Bus Synchronisation (LBS)

• Ensures the synchronisation of outputs of two independent UPS systems to form Dual Bus Architecture for High availability of Critical BUS

Liebert® LTS, STS2 or Hiswitch2

• This allows critical load to be automatically transferred between two independent, synchronized AC power sources without any risk of load disturbances

TVSS (Transient Voltage Surge Suppressor)

- This offers protection from damaging transients and electrical line noises
- This is normally connected at the bypass path of Hipulse-U or inside the Static Transfer Switch as an optional item

Communication Options

When choosing the best system to protect your mission critical applications, an important consideration would be the software and communication options, As part of our commitment to provide the best solution for you, we offer a wide range of sophisticated software and communication options for Hipulse-U.

- Control through Building Management Systems via Modbus and Jbus protocols
- Web-enabledMonitoring and Management through SNMP protocols
- Network Management Systems ready (HP OpenView, CA unicenter, Novell Managewise, etc)
- Software Solutions
 - Site Monitor Software
 - Facility wide monitoring by SiteScan
 - Shutdown software for your computer



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Specifications

Nominal Ratings		30	40	60							
Rectifier Type		6P	6P 6P								
Input											
Nominal input voltage			380/400/415Vac 3-wire plus ground								
Input voltage range			290 to 498Vac								
Nominal input frequency			50/60Hz								
Input frequency range		45-55Hz / 55-65Hz									
Input current distortion with linear load (with filter)		5% with optional filter									
Power factor (with filter)		0.9 with optional filter									
Output											
Nominal output voltage		380/400/415Vac - 3 Phase with Neutral									
Frequency											
Voltage stability		±1% (Steady state); ±5% (Transient state)									
Transient recovery time		20 milliseconds to 1%									
Frequency stability		±0.1% (Synchronized with internal clock); ±6% (max)(Synchronized with bypass)									
Overload capability	Overload capability		101-110%, 60minutes; 111-125%,10minutes; 126-150%, 1 minute;								
Voltage distortion with linear load		<1%									
Voltage distortion with 100% Non- linear load		<5%									
Permissible load unbalance		100%									
Non linear load capability		100%									
Load handing capability without kVA derating		0.5 lagging to 0.9 leading									
Phase angle displacement accuracy	100% balanced load	±1°									
	100% unbalanced load		±1°								
Dimensions and wei	ght										
Depth (mm)		810									
Width (mm)			715								
Height (mm)		1615									
Weight(kg)		530	590	670							
General											
General and safety requirements for UPS			IEC 62040-1-1								
EMC requirements for UPS			IEC 62040-2								
Design & Test Methods (1999)			IEC 62040-3								

^{*}Conditions apply

Specifications are subject to change without any prior notification

Specifications considering 400V nominal voltage

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Specifications

Nominal Ratings		80 100 120		160 2		00 3		300 400		0	500			
Rectifier Type		6P	6P	6P	12P	6P	12P	6P	12P	6P	12P	6P	12P	12P
Input										'				
Nominal input voltage		380/400/415Vac 4-wire plus ground												
Input voltage range		290 to 498Vac												
Nominal input frequency		50/60Hz												
Input frequency range		40-70Hz												
Input current distortion with linear load (with filter)		3 to 10% with optional filter												
Power factor (with filter)		0.88 to 0.97 with optional filter												
Output														
Nominal output voltage	е					380/4	00/415Va	c 4-wire p	olus grou	nd				
Frequency														
Voltage stability		±1% (Steady state); ±5% (Transient state)												
Transient recovery time		20 milliseconds (max)												
Frequency stability			±0.1%	% (Synchr	onized w	ith intern	al clock);	±6% (ma	x)(Synch	ronized w	vith bypas	ss)		
Overload capability			10	05%, 60m	inutes; 12	25%,10mir	nutes; 150)%, 1 minu	tes; >1509	%,<200 m	illisecond			
Voltage distortion with linear load								<1%						
Voltage distortion with 100% Non- linear load		<5% <3.5%												
Permissible load unbalance		100%												
Non linear load capability		100%												
Load handing capability without kVA derating		0.5 lagging to 0.9 leading												
Phase angle displacement accuracy	100% balanced load							±1°						
	100% unbalanced load							±1°						
Dimensions and weig	ht													
Depth (mm)								855						
Width (mm)			900		1540	1250	1640	1240	1740	1640		2280		2640
Height (mm)								1900	•		•			•
Weight(kg)			900		1400	1200	1750	1200	1850	1600	2550	22	00	2900
General														
General and safety requirements for UPS		IEC 62040-1												
EMC requirements for UPS		IEC 62040-2												
UPS classification according to CENIEN 6240-3		VFI-SS-111												

*Conditions apply

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