



LS33 10KVA - 200KVA

Low Frequency Online UPS Legend Star Series

LS33 10KVA - 200KVA (3ph in / 3phout)

Key Features:

- Online double-conversion
- DSP technology guarantees high reliability
- True galvanic isolation transformer design
- Control designed to withstand all kinds of loads
- Intelligent battery management to prolong battery lifecycle
- Redundant fan design and independent ventilation enhance durable operation under harsh environment
- Adjustable battery numbers
- Accept dual-mains input
- Parallel operation with up to 4 units(option)
- Variety of communication options available
- Optional 7" touch LCD
- Reverse phase frequency operation and supports non-neutral input



Application

Data center, Industrial equipment, Financial and Securities
Large Data rooms, Postal and Telecommunications, Energy
and Electricity, Industrial and Commercial tax affair, Medical
and Health Equipment

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Technical Specification:

MODEL	LS33 10K	LS33 20K	LS33 30K	LS33 40K	LS33 60K	LS33 80K	LS33 100K	LS33 120K	LS33 160K	LS33 200K
CAPACITY	10KVA/8KW	20KVA/16KW	30KVA/24KW	40KVA/32KW	60KVA/48KW	80KVA/64KW	100KVA/80KW	120KVA/96KW	160KVA/128KW	200KVA/160KW
Power Factor	0.8 PF									
INPUT										
Nominal Voltage	3 x 380VAC/400VAC (3Ph + N)									
Acceptable Voltage Range	305VAC ~ 460VAC									
Frequency	46-54Hz or 56-64Hz									
INVERTER										
Nominal Voltage	3 * 380VAC/400VAC (3Ph + N)									
Precision	Stationary: ±1%									
	Transitory: ±5% (load variations 100-0-100%)									
Frequency	50/60 Hz synchronised ±1 % With mains absent ±0.1 Hz									
Max. Synchronisation Speed	±1 Hz/s									
Waveform	Pure Sinewave									
Total Harmonic Distortion (THDv)	<2% (Linear Load) / <5% (Non-linear Load)									
Phase Displacement	120o ±1% (balanced load)									
	120o ±2% (imbalances 50% of the load)									
Dynamic Recovery Time	1 cycle at 98 % of the static value									
Admissible Overload	110% for 10min; 150% for 60sec ; >160% for 200ms									
Admissible Crest Factor	3:1									
Admissible Power Factor	0.6~1 (inductive or capacitive)									
Imbalance Output Voltage @ 100% Unbalanced Load	<1%									
Current Limit	High overload, short-circuit: RMS Voltage Limit / High Crest-Factor current: Peak Voltage Limit									
STATIC BYPASS										
Type	Solid state									
Voltage	3 x 380VAC/400VAC (3Ph + N)									
Frequency	50/60 Hz									
Activation Criterion	Microprocessor control									
Transfer Time	Zero									
Admissible Overload	150% for 1 hour; 180% for 30sec; >200% for 200ms									
Transfer to Bypass	Immediate, for overloads above 160%									
Retransfer	Automatic after alarm clear									
MAINTENANCE BYPASS										
Manual Maintenance Bypass	YES									
Type	Without interruption									
Voltage	3 * 400V (3Ph + N)									
Frequency	50/60 Hz									
Overall Efficiency	Line Mode	90%	91%	92%	93%	93%	93%	93%	93%	93%
	Battery Mode	90%	91%	93%	93%	93%	93%	93%	93%	93%
BATTERY & CHARGER										
Battery Type and Numbers	12VDC * 16pc	12VDC * 32 pcs (29~32 pcs adjustable)								
Nominal Battery Voltage	192 VDC	384 VDC (Based on 32pcs batteries)								
Charging Method	CC/CV									
Precision	±1%									
Charging Current	Max.: 40 A									
Charging Voltage	216 VDC	432 VDC (Based on 32pcs batteries)								
PHYSICAL										
Net Weight (Kgs)	122	154	213	285	342	464	560	637	710	778
Gross Weight(Kgs)	133	167	226	308	372	494	590	667	750	818
Dimensions, D*W*H(mm)	656*405*817	656*405*817	656*405*941	821*432*1159	975*554*1286	975*554*1286	975*554*1286	975*635*1326	1051*705*1646	1051*705*1646
Package Size(mm)	785*535*985	785*535*985	785*535*1110	950*560*1333	950*560*1333	1125*705*1465	1125*705*1465	1125*786*1535	1205*855*1855	1205*855*1855
Machine Features										
Self Diagnostics	YES									
Overheat	Overheat protection function									
Display	LCD Display									
Operating Temperature	Working temperature 0 ~ 55°C									
Noise level in Decibel	Noise decibel is 70dB at 100% load, <100% debt: 35dB									
Humidity Range	Humidity range < 95% non-condensing									
Program Compatibility	Software Compatible with Novell Netware- Windows7-10 2003 2008- 2012-Linux & MAC									
Surge Protection Function	This UPS has surge protection function, and we do not recommend adding a surge protector externally. (Adding a surge protector to the leakage switch will cause power failure)									
* Product specifications are subject to change without further notice										