



HS33-LV 10KVA - 40KVA

High Frequency Online UPS HS33-LV Series

HS33-LV Series 10KVA - 40KVA (3ph in/ 3ph out)

Key Features:

- Digital circulation control technology with high reliability.
- Strong load adaptability, strong overload and short circuit capability.
- Ultra-wide input voltage and frequency range, adapt to harsh power grid environment, adapt to various fuel generators access.
- The input power factor is up to 0.99, the input harmonic current is less than 3%, and the efficiency of the whole machine is more than 94%. It is green, environmentally friendly, efficient and energy-saving.
- DSP fully digital control, realizing the whole digital control of rectification, inverter, charging and discharging power conversion links.
- Intelligent battery management scheme to extend the service life of batteries.
- The system adopts modular design, and the performance is stable and reliable.
- All fans in the system are designed with redundancy, which greatly improves the reliability of the system.
- The EPO emergency shutdown function can be realized.
- Very long average trouble-free time (> 200,000h) and very low average maintenance time (<0.5h).
- Rich options: Dust-proof network, built-in SNMP network communication card, lightning protection module, battery temperature compensation, mobile phone SMS alarm.
- All circuit boards are made with three protection processes.
- The traditional module machine can be replaced by parallel machines, eliminating the high cost of module cabinets



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Technical Specification:

Model	HS33-LV 10K	HS33-LV 15K	HS33-LV 20K	HS33-LV 30K	HS33-LV 40K
Capacity	10KVA / 9KW	15KVA / 13.5KW	20KVA / 18KW	30KVA / 27KW	40KVA / 36KW
Input					
Input Method	Three-phase four-wire + Grounding				
Rated Voltage	220VAC				
Voltage Range	±25%				
Frequency Range	45-55Hz at 50Hz/54-66Hz at 60Hz (Adaptive)				
Power Factor	≥0.99				
Input Current Harmonics	≤3% (100% N on-linear load)				
Bypass Range	Bypass Protection Upper Voltage Limit: 220V: +25% (optional +10%, +15%, +20%); 230V: +20% (optional +10%, +15%); 240V: +15% (optional +10%) Bypass Protection Lower Voltage Limit: -45% (optional -20%, -30%) Bypass Frequency Protection Range: ±10%				
Output					
Output Method	Three-phase four-wire + Grounding				
Rated Voltage	220VAC				
Power Factor	0.9				
Voltage Accuracy	±1%				
Output Frequency	AC Mode	Synchronized with input; when mains frequency exceeds the maximum ±10% (configurable to ±1%, ±2%, ±4%, ±5%), output frequency becomes 50 × (±0.2) Hz.			
	Battery Mode	(50 / 60±0.2%)Hz			
Load Peak Ratio	3:1				
Output Voltage Distortion	≤2% Linear load; ≤5% Non-linear load.				
Battery					
Battery Voltage	Master Unit: ±192V DC (2×16 cells); Slave Unit Voltage Options: ±192V / ±216V / ±240V DC (32 cells / 36 cells / 40 cells)				
Capacity (Standard Model)	Single battery cell: 12V 9AH				
Charging Current	2.7A (Standard Unit); Max. 10A (Extended Unit)				
Protection					
Overload Capacity	Load ≤110%, 60 min; ≤125%, sustained for 10 min; ≤150%, sustained for 1 min; ≥150%, immediate shutdown.				
Overheating Protection	Normal Mode: Switch to bypass mode; Battery Mode: Immediately shut down output				
Emergency Power Off (EPO)	Immediately shut down the output.				
System					
Efficiency	Normal Mode: ≥94.5%; Economy Mode: 99%				
Switching Time	AC mode to bypass mode: 0ms (tracking); AC mode to battery mode: 0ms				
Communication Interface	USB, RS485, Dry Contact, Parallel Operation (Optional), SNMP Card (Optional), Relay Card (Optional)				
Display	LCD+LED				
EMI	IEC62040-2				
EMS	IEC61000-4-2(ESD) / IEC61000-4-3(RS) / 61000-4-4 (EFT) / IEC61000-4-5 (Surge)				
Protection Level	IP20				
Connection Way	Backline				
Temperature	0-40°C				
Relative Humidity	0-95% (No Condensation)				
Elevation	Below 1500m, rated for use at rated capacity. Above 1500m, derate according to GB/T 3859.2.				
Noisy (dB)	<55dB				
Physical Parameter					
Net Weight (Kg)	43	44	45	87	89
Machine Dimensions- D*W*H(mm)	703*252*532			703*300*932	
*Product Specifications are Subject to Change Without Notice.					