

LEAD 9900 -G4 Series Online High Frequency UPS

- Advanced dual-core DSP control technology and 3-level technology
- Output power factor 1.0
- Active Power Factor Correction Technology, input power factor up to 0.99
- System efficiency improved to 96%, energy saving rate is doubled
- Working efficiency up to 99% in ECO mode
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range, 50 / 60 Hz auto-sensing frequency
- 50 Hz / 60 Hz frequency conversion mode
- Compact internal layout, small footprint
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Features strong fault tolerance, one fan damaged takes 50% of the load, two fans damaged take 30% of the load
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Linear downgrading in low voltage input reducing battery discharging times
- Flexible battery configuration setting, selectable battery numbers: 30 ~ 44 pcs
- Digitally controlled charger (Max.48 A)
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring output uninterrupted
- Settable delayed start time when mains power is restored
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, RJ45, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life



LEAD SPECIFICATION 40-120KVA					
Model	LEAD 9940	LEAD 9960	LEAD 9980	LEAD 99100	LEAD 99120
Capacity	40KVA/40W	60KVA/60W	80KVA/80W	100KVA/100W	100KVA/120KW
INPUT					
Input Wiring	Three-phase five-wire (3 ϕ + N + PE)				
Rated Voltage	380/400/415 Vac				
Voltage Range	304 ~ 485 Vac (no downgrading), 138 ~ 304 Vac (linear downgrading between 40% ~ 100% load)				
Rated Frequency	50/60 HZ (auto-sensing)				
Frequency Range	40 ~ 70 HZ				
Power Factor	≥ 0.99				
Bypass Voltage Range	60% ~ +20% (settable)				
Total Harmonic Distortion (THD)	$\leq 3\%$				
OUTPUT					
Output Wiring	Three-phase five-wire (3 ϕ + N + PE)				
Rated Voltage	380/400/415 Vac				
Voltage Regulation	$\pm 1\%$				
Frequency	Synchronized with utility in mains mode, 50 /60 Hz $\pm 0.1\%$ in battery mode				
Waveform	Sinusoidal				
Power Factor	1				
Total Harmonic Distortion (THDv)	$\leq 1\%$ (Linear load); $\leq 4\%$ (Non-linear load)				
Crest Factor	03:01				
Overload	105% ~ 110% for 60 min, 110% ~ 125% for 10min, 125%~150% for 1 min, >150% for 0.2 s				
BATTERIES					
DC Voltage	± 192 Vdc ($\pm 180 \sim \pm 264$ Vdc settable) 40 KVA Built-in battery: ± 240 Vdc (80 pcs 9AH/12 V)				
Number of Battery	32 pcs (30~44 pcs settable)				
Charging Current (max)	12A	24A		36A	
Recharge Time	Depend on the capacity of battery				
SYSTEM					
Efficiency	Max. 96% in online mode, 99% in ECO mode				
Transfer Time	0ms				
Protections	Short-Circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure				
Max. number of parallel Connections	4				
Communications	Standard configuration: RS232, USB, RS485, NET, dry contacts; Optional configuration: SNMP card, WI-FI card, GPRS card				
Display	5 inches colorful LCD touch screen				
OTHERS					
Operating Temperature	0°C ~ 40°C				
Storage Temperature	25°C ~ 55°C (without battery)				
Relative Humidity	0% ~ 95% (non-condensing)				
Altitude	≤ 1000 m; above 1000 m, downgrading 1% for each additional 100m				
IP Rating	IP 20				
Noise Level at 1m	≤ 65 dB				
Dimensions (W*D*H) (mm)	360 X 850 X 885	360 X 850 X 950	360 X 850 X 1200	440 X 850 X 1200	
Packaged Dimensions (W*D*H) (mm)	450 X 940 X 1055	450 X 940 X 1120	450 X 940 X 1370	530 X 940 X 1370	
Net Weight (kg)	95 295 (built-in BAT)	130.5	156	198	
Gross Weight (kg)	110 310 (built-in BAT)	145	172	218.5	

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.