

LEAD

10 kVA ~ 20 kVA

(3:1/ 1:1)

PF 1.0/ 0.9



LEAD
POWER SOLUTIONS

Features

- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable
- Wide input voltage range (190 - 499 Vac) and frequency range (40 - 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input/ 60 Hz output or 60 Hz input/ 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 10 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery

- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

Available Options

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMO, and SMS alarms

LEAD
POWER SOLUTIONS

Specification

MODEL	LEAD 9010 (3:1)	LEAD 9015 (3:1)	LEAD 9020 (3:1)
Capacity	10kVA/10kW	15 kVA/ 15 kW	20 kVA/ 20 kW
Input wiring	Three-phase five-wire (3φl + N + PE)		
Rated voltage	380 / 400 / 415 Vac		
Voltage range	190 - 305 Vac (linear derating between 50% and 100% load); 305 - 499 Vac (no derating)		
Rated frequency	50 / 60 Hz (auto-sensing)		
Frequency range	40 - 70 Hz		
Power factor	0.99		
Bypass voltage range	- 40% - +15% (settable)		
Total harmonic distortion (THDi)	!>5%		
Output	Single-phase three-wire (1φl + N + PE)		
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac		
Voltage regulation	± 1%		
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz± 0.1% Hz in battery mode		
Waveform	Sinusoidal		
Power factor	1		
Total harmonic distortion (THDv)	≤ 1 % (linear load); ≤ 3% (non-linear load)		
Crest factor	3:1		
Overload	105% - 110% for 10 min, 110% - 125% for 1 min, 126% - 150% for 30 s		
DC voltage	192 Vdc (192 - 240 Vdc settable)		
Number of battery	16 pcs (16-20 settable)		
Inbuilt battery (standard model)	12V /9Ahx16	/	
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 - 5 A settable; 10 A (optional)		
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery		
Efficiency	94% at 100% load, max. 95% at 60% load, 98% in ECO mode		
Transfer time	0 ms		
Protections Max. number of parallel connections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure 4		
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / Battery temperature compensation (optional)		
Display	LCD+ LED		
Operating temperature	0°C - 40°C		
Storage temperature	-25°C - 55°C (without battery)		
Relative humidity	0 - 95% (non-condensing)		
Altitude	!> 1000 m, derating 1% for each additional 100 m		
IP rating	IP 20		
Noise level at 1 m	!> 58 dB		
Dimensions (W x D x H) (mm)	191 x 495 x 711 (S) 191 x 495 x 350 (H)	191 x 495 x 515 (H)	
Packaged dimensions (W x D x H) (mm)	310 x 685 x 941 (S) 318 x 617 x 475 (H)	285 x 593 x 618 (H)	
Net weight (kg)	64 (S), 18.5 (H)	26.5 (H)	
Gross weight (kg)	72 (S), 20 (H)	28(H)	

• S means standard model; H means long time model.
• All specifications are subject to change without notice.
• **Model numbers depend on the availability**