

HIGH-LEVEL ONLINE UPS

CLIPPERS

LITHIUM BATTERY SERIES

5KL



TELECOM



NETWORK



DATA CENTER



COMPUTER



Professional On-Line UPS Solutions

Ideal for medium-density power protection demand, power guardian. Clippers LB UPS are designed as long-time models which bring flexibility to attach with various capacities of external battery banks. Besides, IT personnel can manage equipment well from learning intuitive information via LCD display.

True Double-conversion

Provides consistent and clean power by converting AC to DC and back to AC, ensuring high-quality output.

Output Power Factor=1

Delivers maximum efficiency with a power factor of 1, meaning real power equals apparent power.

Output Voltage Regulation < 1%

Maintains a stable output voltage within a 1% variance, ensuring sensitive equipment operates smoothly.

Higher Output Crest Ratio 3:1

Handles high inrush currents with a crest factor of 3:1, suitable for devices with varying power needs.

50Hz/60Hz Frequency Converter Mode

Allows seamless switching between 50Hz and 60Hz frequencies, making it adaptable for global use.

Emergency Power Off Function (EPO)

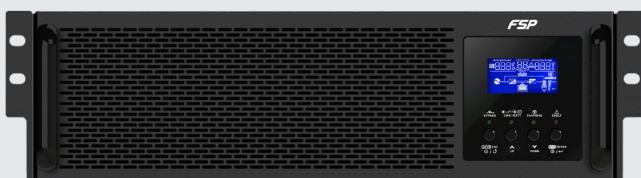
Provides an immediate shutdown option in emergencies to protect personnel and equipment.

Up to 60A Built-in Super Charger to Shorten Charging Hours

Features a powerful built-in charger that supports up to 60A, reducing battery charging time significantly.

Parallellable Up to 9 pcs

Supports parallel operation of up to 9 units, enhancing power capacity and redundancy for critical systems.



FRONT



REAR

TECHNICAL DATA

MODEL	CLIPPERS LB 5KL
PHASE	Single phase with ground
CAPACITY	5000 VA / 5000 W

INPUT	
Voltage	220/230/240 VAC
Voltage Range	110-300 VAC $\pm 3\%$ @ 50% load / 176-300 VAC $\pm 3\%$ @ 100% load
Frequency Range	46~54 or 56~64 Hz
Harmonic Distortion (THDi)	< 6% (50% load) / < 4% (100% load)
Power Factor (@100% load)	≥ 0.99 @ nominal voltage

OUTPUT	
Voltage	220/230/240 VAC
AC Voltage Regulation (Batt. Mode)	$\pm 1\%$
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz
Harmonic Distortion	< 1% (Linear Load) / < 4% (Non-linear load)
Transfer Time	0 ms (AC Mode to Batt. Mode) / 0 ms (Inverter to Bypass)
Waveform	Pure sine wave

EFFICIENCY	
AC Mode @ full charged battery	93%
ECO Mode @ full charged battery	99.5%
Battery Mode	91%

BATTERY	
Battery Type	Lithium Battery
Numbers	16 ~ 20
Charging Voltage (Vdc $\pm 1\%$)	54.6
Charging Current (MAX)	60 A

PHYSICAL	
Dimension, D x W x H (mm)	420 x 438 x 133 (3U)
Net Weight (without battery kgs)	15
Communication Interface	RS232 & USB

OPERATING ENVIRONMENT	
Humidity (non-condensing)	20-95% RH @ 0-40°C
Noise Level @ 1 Meter	≤ 58 dBA
Altitude (Max 3000m)	10% de-rating for over 1000m

MANAGEMENT	
Smart RS-232/USB	Supports Windows® 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10, Linux and MAC
SNMP (Optional)	Power management from SNMP manager and web browser

STANDARD	
EMC/Safety	EMC EN62040-2 C2 for CE models

Backup Time Table for Clippers Series

		Backup Time with Load			
	Battery Bank	25%	50%	75%	100%
CLIPPERS 5KL	+1 PS5120E	205 mins	88 mins	53 mins	37 mins
	+2 PS5120E	410 mins	176 mins	106 mins	74 mins



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