

## PowerBridge LB Series

### True Online Double Conversion Lithium Iron Phosphate UPS (LiFePO4)

The PowerBridge LB series is a rackmount type design with a true double conversion online single-phase UPS system. It comes with a lithium iron phosphate (LiFePO4) battery.

This is a game-changing technology when it comes to UPS batteries. Lithium-iron phosphate batteries have a higher power density, last about twice as long (or longer), recharge much faster, and can withstand up to ten times more discharge cycles than traditional valve-regulated lead-acid (VRLA) batteries.

When compared to traditional VRLA batteries, lithium iron phosphate batteries can save up to 50% on total cost of ownership due to their longer lifespan and ability to withstand more charging and discharge cycles.



### Features

- User Friendly LCD Display
- Rackmount Type Design
- Lower Total Cost of Ownership (TCO)
- Generator Compatible
- Charging Current Selectable Through LCD Panel
- Input Power Factor Correction
- Easy Battery Replacement Design
- Long Battery Lifecycle >2000
- Built-in Protection Circuit in Battery Pack with UL 1973 (MH63914) Certified
- UN38.3 Approval
- 2 Years Warranty for Parts, Labour & 5 Years for Battery



Telecommunication System



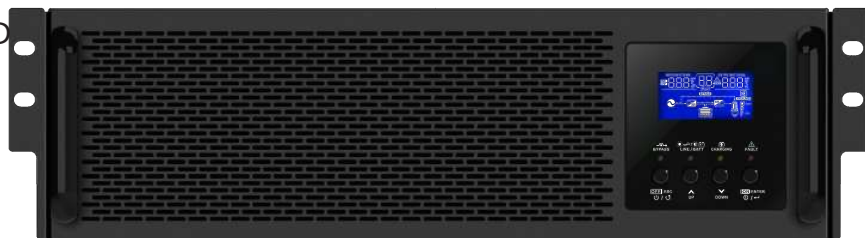
Data Center



Financial System



Mission Critical Equipment



## Key Advantages

### 19" Rackmount Design

Suitable for horizontal rack installation

### Lithium Iron Phosphate Battery Technology

Lithium Iron Phosphate battery has excellent thermal and chemical stability, the battery remains cool even at high temperatures

### Lower Total Cost of Ownership (TCO)

Longer battery life cycle >2000, resulting in TCO savings of up to 50% or more when compared to VRLA batteries

### Safety Standard

Built-in battery for PowerBridge LB series is certified to safety standard complying with UL 1973 and UN38.3

## Front & Rear Panel

5KVA



PowerBridge LB Series 5KVA

- 1. LCD Display
- 2. Status Indicator
- 3. EPO Connector
- 4. RS-232 Communication Port
- 5. USB Communication Port
- 6. Parallel Connection

- 7. Intelligent Slot
- 8. Input Circuit Breaker
- 9. AC Input / Output Terminal
- 10. Battery Input
- 11. Cooling Fan



## Technical Specification:

MODEL	PowerBridge LB Rack 5KL	
CAPACITY ( KVA/WATTS)	5KVA / 5000W	
<b>INPUT</b>		
NOMINAL VOLTAGE	220/230/240 VAC	
VOLTAGE RANGE	110 - 280VAC (Based on load @ 50%)	
	170 - 280VAC (Based on load @ 100%)	
FREQUENCY RANGE	46Hz ~54Hz or 56 ~ 64 Hz	
PHASE	Single Phase with Ground	
INPUT POWER FACTOR	≥ 0.98 @ nominal voltage (100% load)	
HARMONIC DISTORTION (THDi)	≤ 8%	
<b>OUTPUT</b>		
OUTPUT VOLTAGE	220/230/240 VAC	
OUTPUT POWER FACTOR	1.0	
AC VOLTAGE REGULATION (Batt. Mode)	± 1%	
FREQUENCY RANGE (Synchronized Range)	46Hz ~54Hz or 56 ~ 64 Hz	
FREQUENCY RANGE (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz	
CURRENT CREST RATIO	3:1	
HARMONIC DISTORTION	≤ 3 % THD (Linear Load) ; ≤ 5 % THD (Non-linear Load)	
WAVEFORM (Batt. Mode)	Pure Sinewave	
TRANSFER TIME	AC TO BATTERY MODE	Zero
	INVERTER TO BYPASS	< 4 ms (Typical)
OUTPUT SOCKET	Terminal Block	
<b>EFFICIENCY</b>		
AC MODE @ FULL LOAD	93%	
ECO MODE @ FULL LOAD	99.5%	
BATTERY MODE @ FULL LOAD	91%	
<b>BATTERY</b>		
BATTERY TYPE	LIO 4805 / LIO 4810	
BATTERY VOLTAGE	48 VDC	
FLOATING CHARGE VOLTAGE	54.6 VDC	
OVERCHARGE PROTECTION	60 VDC	
CHARGING CURRENT (Max)	50A	
<b>STATUS INDICATION</b>		
LCD DISPLAY	Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode, UPS Fault	
AUDIBLE ALARM	Battery Mode, Low Battery, UPS Fault, Overload	
<b>COMMUNICATION</b>		
POWER MANAGEMENT SOFTWARE	Support Window Family, Linux & MAC	
INTERFACE	USB & RS-232 Communication Port	
INTELLIGENT SLOT	SNMP Slot	
<b>PHYSICAL</b>		
OPERATING ENVIRONMENT	0-50°C, 0 - 95% Relative Humidity (Non-Condensing)	
NOISE LEVEL	Less than 60dBA @ 1 Meter	
DIMENSION (DxWxH)mm	489 x 465 x 132	
WEIGHT (KG)	17	
<b>WARRANTY</b>		
UPS WARRANTY	2 Years Full Warranty include Parts, Labour & 5 Years for Battery	
<b>STANDARD</b>		
EMC / SAFETY	EMC: EN62040-2 C2 for CE Models, Battery Pack comply to UL1973, UN38.3, IEC 62619	

\*Specification subjects to change without prior notice

