



PowerBridge LiFe RT Series

True Online Double Conversion Lithium Iron Phosphate UPS (LiFePO4)

The PowerBridge LiFe RT series is a true double conversion online single-phase UPS system that is available in tower and rackmount 2-in-1 convertible design.

The PowerBridge LiFe RT series 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.

The PowerBridge LiFe RT series is the ideal solution for critical infrastructure in edge or distributed IT applications.

Features

- User Friendly LCD Display
- Tower / Rackmount 2-in-1 Convertible Design (1KVA-3KVA)
- Lower Total Cost of Ownership (TCO)
- Output Power Factor 0.9
- Generator Compatible
- Charging Current Selectable Through LCD Panel
- Input Power Factor Correction
- Faster Recharge Time & Longer Backup Time
- 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 Facilities



Data Center



Manufacturing



Mission Critical Equipment



Key Advantages

Tower & Rackmount 2-in-1 Convertible Design

Suitable for horizontal rack or vertical tower 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 LiFe RT series are certified to safety standard complying with UL 1973 and UN38.3

Rear Panel

1KVA - 3KVA



PowerBridge LiFe RT 1KVA - 1.5KVA



PowerBridge LiFe RT 2KVA



PowerBridge LiFe RT 3KVA

1. AC Input

2. Network/Fax/Modem Surge Protection (RJ45)

3. Cooling Fan

4. USB Communication Port

5. RS-232 Communication Port

6. EPO Connector

7. Intelligent Slot

8. 8 x IEC Output Socket

9. 1 x IEC C19

10. External Battery Connector



Technical Specification:

MODEL	PowerBridge LiFe RT 1K	PowerBridge LiFe RT 1.5K	PowerBridge LiFe RT 2K	PowerBridge LiFe RT 3K			
CAPACITY (KVA/WATTS)	1000 VA / 900 W	1500 VA / 1350 W	2000 VA / 1800 W	3000 VA / 2700 W			
INPUT							
NOMINAL VOLTAGE	160 VAC / 140 VAC / 120 VAC / 110 VAC ± 3 % based on load percentage	200/208/220/230/240 VAC					
LOW LINE TRANSFER		100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0					
VOLTAGE RANGE		175 VAC / 155 VAC / 135 VAC / 125 VAC ± 3 % based on load percentage					
LOW LINE COMEBACK		100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0					
HIGH LINE TRANSFER	300 VAC ± 3%						
HIGH LINE COMEBACK	290 VAC ± 3%						
FREQUENCY RANGE	40Hz ~ 70Hz						
PHASE	Single Phase with Ground						
INPUT POWER FACTOR	≥ 0.99 @ nominal voltage (100% load)						
HARMONIC DISTORTION (THDi)	≤ 5% @160-265 VAC input and full linear load condition ≤ 10% @160-265 VAC input and 50% linear load condition						
OUTPUT							
OUTPUT VOLTAGE	200/208/220/230/240 VAC						
OUTPUT POWER FACTOR	0.9						
AC VOLTAGE REGULATION (Batt. Mode)	± 1%						
FREQUENCY RANGE (Synchronized Range)	47~53Hz or 57 ~ 63 Hz						
FREQUENCY RANGE (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz						
CURRENT CREST RATIO	3:1						
HARMONIC DISTORTION	≤ 2 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)						
AC TO BATTERY MODE	Zero						
TRANSFER TIME	INVERTER TO BYPASS	<4 ms (Typical)					
	ECO TO BYPASS	8 ms (Typical)					
WAVEFORM (Batt. Mode)	Pure Sinewave						
OVERLOAD CAPACITY	AC MODE	100% < Load < 110% Overload warning only 110% < Load < 130% 5min (+/- 4sec) 130% < Load < 140% 30sec (+/- 1sec) 140% < Load 1.5sec (+/- 0.5sec).					
	INVERTER (BATTERY) MODE	100% < Load < 110% Overload warning only 110% < Load < 130% 1min (+/- 4sec) 130% < Load < 140% 2sec (+/- 1sec) 140% < Load 1.5sec (+/- 0.5sec).					
EFFICIENCY							
AC MODE @ FULL LOAD	90%@ Battery fully charged		91%@ Battery fully charged	90%@ Battery fully charged			
ECO MODE @ FULL LOAD	≥ 96% @ full charged battery						
BATTERY MODE @ FULL LOAD	87%	89%	89%	90%			
BATTERY							
BATTERY TYPE	LiFe 247500	LiFe 485000		LiFe 722500			
BATTERY NUMBERS	1	1	2	2			
RECHARGE TIME	2 hours recover to 100% capacity @ 4.0A charging current						
CHARGING CURRENT	1A/2A/4A(Default)/6A/8A (Adjustable)						
CHARGING VOLTAGE	28VDC ± 1%	52.5VDC ± 1%	84VDC ± 1%				
BATTERY LIFECYCLE	> 2000						
SINGLE CELL TYPE	LFP26650P-260						
BATTERY CELL CONFIGURATION	8S3P	15S2P	(15S2P) x 2	(24S1P) x 2			
BATTERY VOLTAGE	25.6V	48V	48V	76.8V			
BATTERY VAH (Factory Setting)	7.5Ah	5Ah	10Ah	5Ah			
AUTONOMY TIME @ Full Load	9.5 minutes	8 minutes	12 minutes	9.5 minutes			
CHARGING MODE	2 stage charging management(CC-CV)						
STATUS INDICATION							
LCD DISPLAY	Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode, UPS Fault						
AUDIBLE ALARM	Battery Mode, Low Battery, UPS Fault, Overload						
COMMUNICATION							
POWER MANAGEMENT SOFTWARE	Support Window Family, Linux & MAC						
INTERFACE	USB & RS-232 Communication Port						
INTELLIGENT SLOT	SNMP Slot						
PHYSICAL							
OPERATING ENVIRONMENT	0-40°C, 20 - 95% Relative Humidity (Non-Condensing)						
NOISE LEVEL	< 50dBA @ 1 Meter						
DIMENSION (DxWxH)mm	410 x 438 x 88 (2U)		510 x 438 x 88 (2U)	630 x 438 x 88 (2U)			
WEIGHT (KG)	10.8	11.6	15.2	14.4			
WARRANTY							
UPS WARRANTY	2 Years Full Warranty include Parts, Labour & 5 Years for Battery						
STANDARD							
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