

# VFI 1000 - 3000 LICR IoT



2\* Conversion Boost Buck



Up to 9 min Backup Time



Power Factor



Lithium Battery

## FEATURES

- ◆ Output power factor 1.
- ◆ Industry-leading BMS reliability.
- ◆ Built-in cloud connection.
- ◆ Up to 4 hot-swappable battery modules.
- ◆ Lower TCO than lead acid.
- ◆ Compact 2U UPS + 2U EBM design.
- ◆ Level 3 LFP lithium battery system with advanced BMS.
- ◆ Long backup time with up to 4 optional EBM cabinets.
- ◆ Maintenance bypass accessory with load segment control.

## LICR Lithium UPS Advantage

Key Features	LICR IoT RT 1-3K Li ion UPS	Advanced Features Compared to Competitor Product	Customer Benefits
PF	1	11% more power supply than competitor offer	Support plus 11% load
Efficiency	up to 94%	2% higher efficiency than competitor offer	Save more electricity expense
Advance BMS and Li-ion Battery PACK	Level 3 BMS synchronization with UPS (Pre-alarm capacity / health prediction, Multi level protection, etc.)	<ol style="list-style-type: none"> <li>1. Safety/reliability improved 30%.</li> <li>2. Prediction to reduce downtime lost 20%.</li> </ol>	<ol style="list-style-type: none"> <li>1. More charge discharge cycle and longer life, to save 1 time battery replacement (battery expense and service saving)</li> <li>2. Reduce 1 time downtime lost and MTBF.</li> <li>3. Reduce potential safety risk.</li> </ol>
	Advance internal cell / pack / EBM balancing and protection.	<ol style="list-style-type: none"> <li>1. Ensure backup time and eliminate abnormal downtime lost.</li> <li>2. Ensure battery cell/pack life.</li> </ol>	
	All-in-One design with auto addressing 1U Li-ion EBM.	<ol style="list-style-type: none"> <li>1. Space saving.</li> <li>2. Easy configuration for start up and service.</li> </ol>	





Screen Details

**PowerWalker VFI 1k-13k LICR IoT** features a lower total cost of ownership compared to lead acid solutions, with a built-in lithium battery that synchronizes with the UPS, ensuring capacity and external balancing. It offers extended backup time with up to 4 optional EBMs, automatically detected for seamless integration.

Its compact design combines a 2U UPS with a 1U EBM, enabling flexible rack or tower installation with a rotatable LCD panel. The UPS provides multiple connectivity options including USB, RS232 port, dry contacts, RPO & R00 connectors, and optional SNMP, along with a built-in Ethernet port for cloud connection.

Model	VFI 1 k LICR IoT	VFI 1.5 k LICR IoT	VFI 2 k LICR IoT	VFI 3 k LICR IoT
<b>Capacity</b>				
Power Capacity	1000 VA / 1000 W	1500 VA / 1500 W	2000 VA / 2000 W	3000 VA / 3000 W
<b>Input</b>				
Input Voltage Range	110 ~ 300 V			
Frequency Range	45 ~ 55 Hz / 54 ~ 66 Hz			
Input Wiring	Single Phase with ground			
Input PF	0.99			
Current Distortion (THDi)	< 5% @ full load			
<b>Output</b>				
Output Power Factor	1			
Nominal Output Voltage	200 / 208 / 220 / 230 / 240 V			
Voltage Regulation	± 1%			
Frequency Range (Battery Mode)	50 / 60 ± 0.2 Hz			
Current Crest Ratio	3 : 1			
Voltage Distortion (THDv)	< 1% @ Linear Load, < 5% @ Non-Linear Load			
Output Waveform	Pure Sine Wave			
Parallel Operation	No			
<b>Efficiency</b>				
Inverter Mode	91% max	92% max	93.5% max	94% max
ECO Mode	96%		97%	
<b>Transfer Time</b>				
Battery Mode to Inverter Mode	0 ms			
Inverter Mode to Bypass Mode	4 ms			
ECO Mode to Battery Mode	< 10 ms			
<b>Dimension</b>				
UPS: (D×W×H) [mm]	445 × 438 × 86.5		608 × 438 × 86.5	
EBM (External Battery Module): (D×W×H) [mm]	445 × 439 × 43		608 × 439 × 43	
<b>Environment</b>				
Operating Temperature	0 ~ 40°C			
Noise Level	< 40dB @ 1 Meter		< 45dB @ 1 Meter	
<b>Interface</b>				
Display	DOT-MATRIX LCD			
RS232/USB	Yes, USB HID			
External Slot	Yes, 1 slot for network card, modbus card and dry contact card			
Dry Contact	Dry in and dry out, programable			
Emergency Power Off	Yes			
Ethernet Port	Build in ethernet port support direct cloud connection or local network connection			
W-LAN Connection	Optional			
<b>Certification</b>	CE; IEC62619 for lithium battery; IEC62040 for UPS			