

UPS On-Line Single-Phase

VFI 1k-3k LICR IoT



2× Conversion Boost Buck



More than 9 min Backup Time



Power Factor



Lithium Battery

Features

- Output power factor 1.
- Industry-leading BMS reliability.
- Built-in cloud connection.
- Up to 4 auto-detect battery packs in a compact 1U design
- Lower TCO than lead acid.
- Compact 2U UPS + 1U EBM design.
- Level 3 LFP lithium battery system with advanced BMS.
- Extended backup time thanks lithium batteries.

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"> 1. Safety/reliability improved 30%. 2. Prediction to reduce downtime lost 20%. 	<ol style="list-style-type: none"> 1. More charge discharge cycle and longer life, to save 1 time battery replacement (battery expense and service saving) 2. Reduce 1 time downtime lost and MTBF. 3. Reduce potential safety risk.
	Advance internal cell / pack / EBM balancing and protection.	<ol style="list-style-type: none"> 1. Ensure backup time and eliminate abnormal downtime lost. 2. Ensure battery cell/pack life. 	
	All-in-One design with auto addressing 1U Li-ion EBM.	<ol style="list-style-type: none"> 1. Space saving. 2. Easy configuration for start up and service. 	

Model	VFI 1 k LICR IoT	VFI 1.5 k LICR IoT	VFI 2 k LICR IoT	VFI 3 k LICR IoT
Capacity				
Power Capacity	1000 VA / 1000 W	1500 VA / 1500 W	2000 VA / 2000 W	3000 VA / 3000 W
Input				
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			
Output				
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			
Efficiency				
Inverter Mode	91% max	92% max	93.5% max	94% max
ECO Mode	96%	97%		
Transfer Time				
Battery Mode to Inverter Mode	0 ms			
Inverter Mode to Bypass Mode	4 ms			
ECO Mode to Battery Mode	< 10 ms			
Dimension				
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	
Environment				
Operating Temperature	0 ~ 40°C			
Noise Level	< 40dB @ 1 Meter		< 45dB @ 1 Meter	
Interface				
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			
Certification	CE; IEC62619 for lithium battery; IEC62040 for UPS			