

# E+Li Series Single Phase Lithium UPS

6kVA-40kVA 1:1/3:1 PF:0.8 220VAC/230VAC/240VAC



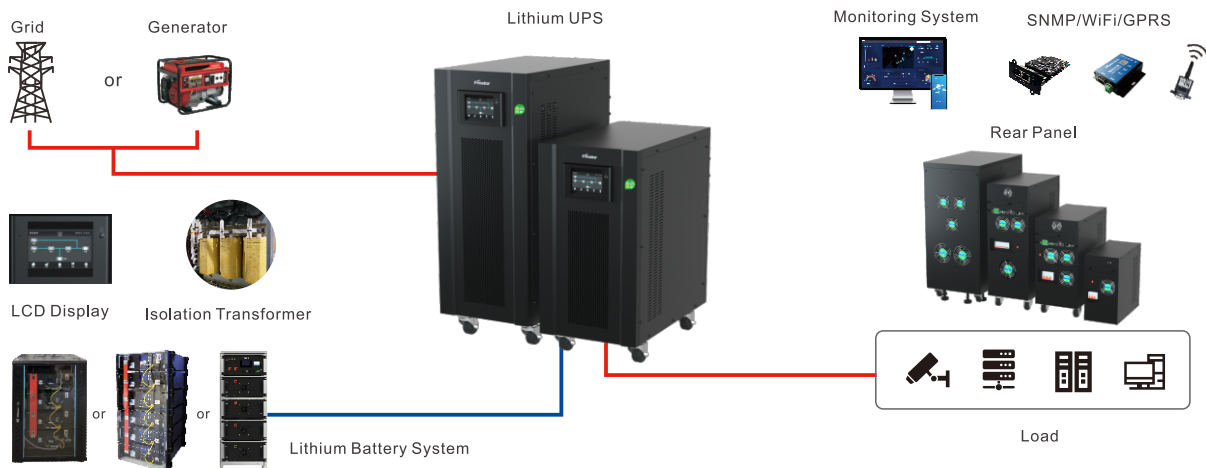
## Performance Characteristics

- Integrated BMS prevents overcharging, deep discharge, short circuits, and thermal runaway
- Monitors Li-ion cell voltage, current, temperature, SoC, and SoH in real-time
- Hybrid power supply tech combines utility and battery power, with adjustable distribution. Ideal for weak grids and high loads
- Fast charging (up to 3x) cuts downtime and speeds recovery
- ECO mode offers up to 98% efficiency and allows parallel operation
- Load adaptability allows for motor and impact loads
- DSP full digital control offers stronger performance
- Supports RS232, RS485, CAN, USB, dry contact, SNMP card, WiFi/GPRS card, etc
- A 5-inch LCD capacitive touch screen provides intuitive operation

## Lithium-ion Battery VS VRLA Battery

Feature	VRLA Battery	LiFePO4 Battery	Lithium-ion Battery Benefit
Standby battery life	3-5 years	More than 10 years	Up to 3 times longer life.
Typical cycle life	260-300	Over 3000	Up to 10x more discharge/recharge cycles available.
Battery recharge time (to 90%)	3-8 hours	< 2 hours	Fast recovery time, multiple outages can be handled over a short period.
Battery weight	Heavy	Light	Almost 40% weight reduction, suitable for smaller space and wall mount racks.
Warranty	1-2 year	5-year	Install and go - ideal for remote or unmanned locations.

## Application Diagram



## Technical Specification

Model		EU6K+Li	EU10K+Li	EU15K+Li	EU20K+Li	EP10K+Li	EP15K+Li	EP20K+Li	EP30K+Li	EP40K+Li
Capacity		6K/4.8K	10K/8K	15K/12K	20K/16K	10K/8K	15K/12K	20K/16K	30K/24K	40K/32K
Dimension(WxDxHmm)		265x530x580			350x615x780		350x615x1010		500x800x1140	
Weight(Kg)		65	83	98	126	146	168	196	238	274
Input	Nominal Voltage	220V/230V/240V±25% (L+N+PE)				380V/400V/415V±25% (3P+N+PE)				
	Input Rated Frequency	50Hz/60Hz ± 5Hz								
	Input Power Factor	>0.95								
	THDI	< 3% full load								
Output	Output Voltage	220V/230V/240V±1%								
	Output Power Factor	0.8								
	Total Harmonic Distortion	≤ 2% at 100% linear load; ≤ 5% at 100% non-linear load								
	Overload Capacity	≤ 105% load, load continuously in double conversion 105%-110% load, 60mins;110%-125% load, 10mins;125%-150% load, 1min > 150%, 200ms								
	Crest Factor	3:1								
	Wave Form	Pure sine wave								
	Transfer Time	0ms								
ECO Mode	Bypass Output Voltage	220V/230V/240V								
	Bypass Output Frequency	50Hz/60Hz±2Hz								
Battery	Battery Type	Lithium-ion Battery								
	Battery Voltage	204.8VDC								
	Charging Voltage	220.8VDC								
	Discharge Cut-off Voltage	176VDC								
System	Protection	Output short circuit protection, output overload protection, over-temperature protection, low battery voltage protection, output overvoltage / undervoltage protection								
	IP Protection	IP30								
	Number of Parallel	≤ 2 Units								
	Cooling Method	Fans								
	Display	4.3-inch LCD Touch Screen								

## Recommended LiFePO4 Lithium Battery Parameter

Model	EHV100-204
Rated Capacity(AH)	100
Nominal Energy(kWh)	20.48
Rated Voltage	204.8VDC
Standard Charging Current	0.5C
Max. Charging Current	1C
Standard Discharging Current	0.5C
Max. Discharging Current	2C
Number of Module	4
Operation Temperature	Discharge: -20°C ~ 50°C; Charge: 0°C ~ +50°C
Cycles	3000 Cycles, standard charging and discharging @100% DoD
Communication Interface	RS485/CAN
Battery Type	LiFePO4
Pack Dimensions DxWxH(mm)	500x460x800
Weight(kg)	215