

KENT Li Battery For Home Inverters

Smart LFP Battery
Compatible with all Inverters



The Ideal Replacement for Lead Acid Battery

It's time to replace your lead-acid battery which requires high-maintenance and needs replacement after 3 years and emits harmful fumes. Kent Li Battery has 3x life with no harmful fumes, gives you double the usable backup, is zero maintenance, and gives 10 years of worry-free power. Give the upgrade your home deserves."



Kent Li Battery A6-1280

12.8V | 100Ah

- Up to 80A Discharge Current
- Ideal for 1000VA Inverters
- Equivalent to 12V | 150Ah Lead Acid Battery
- Can run Lights, Fans, TV

Kent Li Battery A6-2560

25.6V | 100Ah

- Up to 80A Discharge Current
- Ideal for 2000VA Inverters
- Equivalent to 2x12V | 150Ah Lead Acid Battery
- Can run Submersible + Lights, Fans, Fridge, TV

Kent Li Battery A6-3840

25.6V | 150Ah

- Up to 120A Discharge Current
- Ideal for 3000VA Inverters
- Equivalent to 2x12V | 200Ah Lead Acid Battery
- Can run 1 AC + Submersible + Light, Fans, Fridge, TV

Investing in Kent Li Battery is a Smart Choice

KENT Li Battery has a Design life of over 10 years, where as lead-acid batteries has a life of only 3 years
Comparison is as under.

	Kent Li Battery	Lead Acid
Cycle Life	3,000 ⁺ cycles	300-500 cycles
Usable Capacity (Depth of Discharge)	90%	50%
Charging Time	2-3 hours	8-10 hours
Maintenance	Nil	Regular water top-up
Harmful Fumes	Nil	Hydrogen gas
Design Life	10 years	3 years

The 10-Year Math

A Kent Lithium battery delivers **more usable backup** than an equivalent lead-acid, while drawing far less electricity to recharge.

	12V 100 Ah	24V 100 Ah	24V 150 Ah
3 x lead-acid replacements	₹ 33,000	₹ 66,000	₹ 1,00,000
Extra electricity consumed for charging	₹ 35,000	₹ 70,000	₹ 1,05,000
Water top-ups & service	₹ 10,000	₹ 10,000	₹ 15,000
Savings with Kent Li Battery over 10 Years	₹ 50,000*	₹ 1,00,000*	₹ 1,50,000*

*T&C Apply

Features



Universal Inverter Compatibility

Works seamlessly with any standard home inverter. Simply replace your existing lead-acid battery and continue using your current inverter.



Zero Maintenance

No water topping, no acid checks, and no terminal corrosion to clean. A truly sealed, install-and-forget battery that saves you the hassle and recurring service costs of conventional batteries.



Inbuilt Smart BMS

An intelligent Battery Management System continuously monitors voltage, current, temperature and individual cell health. The BLE-enabled BMS displays real-time battery status on a Mobile app.



Inbuilt MCB Protection

Built-in MCB provides an additional layer of safety against short circuits and overcurrent events.



Ten-Year Design Life

Engineered for a decade of dependable backup, delivering nearly 3x the lifespan of a conventional lead-acid battery. Features 3000+ cycle life cells for lower ownership cost.



No Harmful Fumes

Dry LFP chemistry means no acid leaks, no toxic gas emissions, and no corrosive vapours. Safe to install anywhere in your home.



90% Depth of Discharge

Use up to 90% of the battery's rated capacity in every cycle, compared to just 50% in a typical lead-acid battery.



Fast Charging

Advanced LFP cells accept a high charging current, restoring backup capacity in a fraction of the time. Complete recharge in just 2 hrs.



Flexible Installation

Wall mount it. Counter -place it.
Your space, your choice.



Safety Protection

Built-in Safety mechanisms protects against overcharging, over-discharging, overcurrent, and short circuits.

Technical Specifications

Parameter	12.8V 100Ah	25.6V 100Ah	25.6V 150Ah
Nominal Voltage	12.8V	25.6V	25.6V
Rated Capacity	100Ah	100Ah	150Ah
BMS	Smart BMS (BLE Enabled)	Smart BMS (BLE Enabled)	Smart BMS (BLE Enabled)
Cell Type & Chemistry	Prismatic Cell/LiFePO ₄	Prismatic Cell/LiFePO ₄	Prismatic Cell/LiFePO ₄
Nominal Energy	1280Wh @25°C	2560Wh @25°C	3840Wh @25°C
Battery Operating Voltage Range	10.2V~14.4V	20.4V-28.8V	20.4V-28.8V
LFP Cell Design Life	3000 cycles	3000 cycles	6000 cycles
Charging Current	Maximum 50A	Maximum 50A	Maximum 70A
Continuous Discharging Current	80A	80A	120A
Peak Discharge Current	100A for 120 seconds	100A for 120 seconds	150A for 120 seconds
Max Charging Time	2 Hours @50A	2 Hours @50A	3 Hours @50A
Max Discharging Time	2 Hours @50A	2 Hours @50A	3 Hours @50A
Operating Temperature	0°C-55°C	0°C-55°C	0°C-55°C
Relative Humidity	5%-95%	5%-95%	5%-95%
Altitude	<2000m	<2000m	<2000m
Max DOD	90%	90%	90%
Dimension (L×W×H)	278×162×323mm	404×162×363mm	336×219×394mm
Weight	13kg Approx.	24kg Approx.	25.5kg Approx.
Cell Balancing Type	Passive	Passive	Passive
Battery Terminal Type	M6 Bolt	M6 Bolt	M6 Bolt
IP Rating of Enclosure	IP20	IP20	IP20
Battery Enclosure Material	Sheet Metal	Sheet Metal	Sheet Metal
Secondary Protection	DCMCB	DCMCB	DCMCB
Warranty Period	5* Years	5* Years	5* Years



KENT

New Energy

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Next-Gen KENT Lithium Battery



The Perfect Battery
For Every Hybrid Inverter

F1 Series / 51.2V

5.1 kW • 11.8 kW • 14.4 kW • 16 kW



TIER A+ LFP CELLS

Premium LFP cells
rated for 6000+ cycles



ADVANCE BMS

Monitors, protects
and balances every cell



COMPRESSED CELL PACK

Keeps cells firmly
secured for long-life



KENT CELLSYNCTM DUAL ACTIVE BALANCING

Actively balances 2 cells
parallelly for a balanced pack



UPTO 1C DISCHARGE

Delivers full rated power
when needed



20 A CHARGE CURRENT LIMITING

Protects parallel
batteries from excessive
charging current



BUILT-IN MCB

Integrated DC protection that
can be reset when tripped



TOUCHSCREEN DISPLAY

View battery status,
cell data and fault
history



UP TO 16 IN PARALLEL

Scale storage from
5.12 kWh to 200+ kWh



AUTO-NETWORKING

Connect multiple batteries in
parallel without DIP switch



RS485 & CAN COMMUNICATION

Enables universal
compatibility with all hybrid
inverters



FLEXIBLE INSTALLATION

Supports both wall-mounted
and floor-standing installation

Technical Specifications

Item Code	132401	132402	132403	132404
Nominal Power	5.12 kWh	11.8 kWh	14.4 kWh	16 kWh
Cell Chemistry	LiFeP04			
Cell Rating	100 Ah	230 Ah	280 Ah	314 Ah
Nominal Voltage	51.2 V			
Operating Voltage	44.8 V - 57.6 V			
Recommended Charge Current	50 A	115 A	140 A	157 A
Discharge Current				
Recommended	50 A	115 A	140 A	157 A
Max Continuous	100 A	200 A	200 A	200 A
Max Discharge Power	5.12 kWh	10 kWh	10 kWh	10 kWh
Recommended DoD	90%			
Cell Cycle Life	>6000 (25±2°C, 70% EOL)			
Cell Balancing Type/Current	Dual-Active / 2A			
Pack-to-Pack Limiting Current	20 A			
Max Parallel Batteries	16			
Communication	RS 485 / CAN 2.0 / WiFi & Bluetooth			
Display	3.5" Touchscreen			
Primary BMS Protection	Over-Discharge Protection, Over-Charge Protection, Over-Current Protection, Over-Temperature / Thermal Protection, Short-Circuit Protection			
Secondary Protection	DC MCB			
Installation	Wall-mounted / Floor-standing	Floor-standing		
Battery Terminal	2×M8			
Warranted Energy Throughput	15 MWh	36 MWh	44 MWh	48 MWh
Warranty	10 years			
IP Rating	IP 21			
Operating Temprature				
Charging	0 to 55°C			
Discharging	-20 to 55°C			
Storage Temprature	0 to 35°C			
Relative Humidity	95% (non-condensing)			
Altitude	<3000m			
Dimensions (H×W×D)mm	626×400×200	761×430×277	910×450×290	910×450×290
Approx Weight	62 kg	98 kg	125 kg	130 kg

KENT RO SYSTEMS LTD.

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