

Next-Gen KENT Lithium Battery



Smart LFP Battery Compatible with all Inverters

A6 Series / 12.8V
1280 Wh • 1920 Wh

A5 Series / 25.6V
2560 Wh • 3840 Wh



UNIVERSAL INVERTER COMPATIBILITY

Works with your existing inverter—just replace the battery.



ZERO MAINTENANCE

Maintenance-free power—no water, acid checks, or corrosion.



INBUILT SMART BMS

BLE-enabled BMS for real-time battery monitoring on your mobile.



INBUILT MCB PROTECTION

Built-in MCB protects against short circuits and overcurrent.



TEN-YEAR DESIGN LIFE

10+ years of life with 3000+ cycles—3× longer than lead-acid.



NO HARMFUL FUMES

Dry LFP chemistry—leak-free, emission-free, and safe for home use.



90% DEPTH OF DISCHARGE

Up to 90% usable capacity—nearly 2× lead-acid.



FAST CHARGING

Fast LFP charging—full backup in just 2 hours.



FLEXIBLE INSTALLATION

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

Tubular Lead Acid Battery vs KENT Lithium Battery

POINT	LEAD-ACID	KENT LITHIUM
Usable Energy	About 50%	About 90%
Design Life	<800 (3 Years)	>3000 (10 Years)
Maintenance	Water Filling, Terminal Cleaning	Zero Maintenance
Weight Per kWh	About 33 kg	About 10 Kg
Installation	Open Area, As it Releases Acid Fumes	Indoor, No Harmful Fumes
Charging Time	8 to 10 Hours	2 To 4 Hours
Voltage While Running	Keeps Falling	Almost Flat
On Heavy Load	Gives Less Than its Rating	Gives its Full Rating
In Summer	Life Becomes Shorter in Heat	Handles Heat Better as Bms Protects it

Technical Specifications

Item Code	132201	132203	132101	132102
Model	A6-1280	A6-1920	A5-2560	A5-3840
Parameter	12.8V/100 Ah	12.8V/150 Ah	25.6V/100 Ah	25.6V/150 Ah
Nominal Voltage	12.8 V		25.6 V	
Rated Capacity	100 Ah	150 Ah	100 Ah	150 Ah
BMS		Smart BMS (BLE Enabled)		
Cell Type & Chemistry	Prismatic Cell/LiFePo4			
Nominal Energy @ 25°C	1280 Wh	1920 Wh	2560 Wh	3840 Wh
Battery Operataing Voltage	10.2-14.4 V		20.4-28.8 V	
LFP Cell Life (Cycles)	3000+			
Charging Current Max	50 A	75 A	50 A	75 A
Discharging Curent Max	75 A	115 A	75 A	115 A
Peak Discharge Current	80A for 60 Second	120A for 60 Second	80A for 60 Second	120A for 60 Second
Max charging time	2 Hours@ 50A	2 Hours@ 75A	2 Hours@ 50A	2 Hours@ 75A
Max Discharging time	1Hr 20Mins@75Amp	1Hr 20Mins@115Amp	1Hr 20Mins@75Amp	1Hr 20Mins@115Amp
Operataing temp		0-60 °C		
Relative Humidity		5%-95%		
Altitude		<2000m		
Max DOD	95%			
Size (L×W×H)	251×162×329 mm	325×288×255 mm	406×165×360 mm	367×434×255 mm
Weight Gross	13.95 Kg	21.2 Kg	24.3 Kg	37 Kg
Cell-to-Cell Balancing Type	Pasive Balancing			
Battery Terminal Type	M6 Bolt			
IP Rating	IP20			
Secondary Protection	DCMCB			
Warranty Period	5 Years			

KENT RO SYSTEMS LTD.

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