

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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