DUAK ENERGY PVT. LTD.

THE NAME OF TRUST | AN ISO 9001:2015 CERTIFIED CO.

Govt. of India Approved Clean Energy & Lithium-Ion Manufacturer

Jaipur Manufacturing Works | RIICO Industrial Area, Rajasthan, India

DUAK LFP-ESS WALL 5.12kWh - 25.6kWh STACKABLE

SERVER-RACK & WALL-MOUNTED LIFEPO4 ENERGY STORAGE SY

FLAGSHIP SERIES



KEY TECHNICAL BENCHMARKS & RATINGS

Nominal Storage Energy	:	5.12kWh / 10.24kWh / 15.36kWh
Nominal Battery Voltage	:	51.2V DC (Safe Low-Voltage Ext
Rated Continuous Capacit	:	100Ah / 200Ah / 300Ah Prismati
Cycle Life @ 80% DoD	:	> 6,000 Deep Industrial Cycles
Continuous Discharge Rat	:	100A (5kW Continuous Load)
Peak Surge Discharge Rat	:	200A (10kW for 15 Seconds)
Intelligent Active BMS	:	Multi-Tier Dual Microprocessor
Parallel Linking Capacit	:	Up to 15 Units Parallel (76.8k
Thermal Safety Standards	:	Zero Thermal Runaway Fire Haza
Design Architectural Lif	:	15+ Years Commercial Design Li

KEY ADVANTAGES & ENGINEERING EXCELLENCE

Automotive-Grade LiFePO4 Cells

- **Zero thermal runaway hazard under extreme heat**
- UL1642 & IEC 62619 safety certified cells

6,000+ Deep Industrial Cycles

- **Provides over 15 years of daily cycling life**
- Maintains >80% capacity retention after 10 years

Intelligent Cloud-Linked BMS

- **Real-time cell voltage balancing & thermal sensors**
- Auto-protects against over-voltage, short & over-temp

Modular Plug-and-Play Expansion

- **Easily scale storage capacity from 5kWh to 76kWh**
- Parallel communication links automatically via CAN

Universal Hybrid Compatibility

- **Seamless CAN/RS485 sync with DUAK, Growatt, Deye**
- Automatic handshake with all major hybrid inverters

Sleek Wall & Server-Rack Mount

- **Ultra-thin luxury profile installs in under 30 min**
- Ideal for residential villas and enterprise data racks

DUAK ENERGY | DUAK HIGH-CAPACITY ESS BATTERY SERIES

COMPLETE ENGINEERING SPECIFICATIONS & REGULATORY COMPLIANCE DATASHEET

TECHNICAL SPECIFICATIONS	ESS-5.12k	ESS-10.24k	ESS-15.36k	ESS-25.6k MAX
Nominal Energy Capacity (kWh)	5.12	10.24	15.36	25.60
Nominal Battery Voltage (V)	51.2	51.2	51.2	51.2
Operating Voltage Range (V)	44.8 - 57.6	44.8 - 57.6	44.8 - 57.6	44.8 - 57.6
Rated Battery Capacity (Ah)	100	200	300	500
Battery Cell Chemistry	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Max. Continuous Charge (A)	50	100	150	200
Max. Continuous Discharge (A)	100	150	200	250
Depth of Discharge (DoD)	90%	90%	90%	90%
Cycle Life (@25°C, 0.5C, 80% DoD)	> 6,000	> 6,000	> 6,000	> 6,000
Communication Ports	CAN / RS485	CAN / RS485	CAN / RS485	CAN / RS485
Maximum Parallel Connection	15 Units	15 Units	10 Units	8 Units
Operating Temperature	-10°C ~ +55°C	-10°C ~ +55°C	-10°C ~ +55°C	-10°C ~ +55°C
Dimensions (W x H x D) (mm)	442x480x133	482x600x220	520x750x260	600x950x300
Product Warranty	5 / 10 Yrs	5 / 10 Yrs	5 / 10 Yrs	5 / 10 Yrs

CERTIFIED REGULATORY COMPLIANCE STANDARDS:

• IEC 62109-1 / 62109-2 (Safety) • IEC 61000-6-1 / 6-3 (EMC) • CE Directives • ISO 9001:2015 • MNRE & BIS Approved

DUAK CORPORATE ADVANTAGE & QUALITY ASSURANCE

Jaipur Manufacturing Works: Automated robotic assembly with 100% 48-hr full-load burn-in testing.

DUAK Sathi Pan-India Network: Authorized on-site field engineers across 28 states for immediate support.

Up to 10-Year Comprehensive Warranty: Direct manufacturer warranty with zero-downtime spare dispatch.

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