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 EV-TRACTION

48V - 72V HIGH-DISCHARGE

HIGH-POWER LIFEPO4 TRACTION BATTERY FOR E-RICKSHAWS

FLAGSHIP SERIES



KEY TECHNICAL BENCHMARKS & RATINGS

Nominal Pack Voltage	:	48V / 51.2V / 60V / 72V DC
Storage Ampere Capacity	:	50Ah / 100Ah / 120Ah / 150Ah
Max Continuous Discharge	:	120A (Peak Surge 250A for Clim
Deep Cycle Durability	:	> 3,500 Full Cycles @ 100% DoD
Fast-Charging Capability	:	0% to 100% in 2.5 Hours (1C Fa
Waterproof Ingress Armor	:	IP67 Submersible Sealed Metal
Thermal Safety Technolog	:	Flame-Retardant Aluminum Prism
Smart Bluetooth Telemetr	:	Inbuilt App for Speed & Range
Vibration & Shock Standa	:	AIS-156 / AIS-048 Crash Certif
Design Operational Life	:	7+ Years Heavy Daily Commercia

KEY ADVANTAGES & ENGINEERING EXCELLENCE

AIS-156 Safety Certified

- Passed rigorous thermal runaway and nail-penetrati
- Zero fire hazard ensures 100% safety for driver & pass

Fast 2.5-Hour Full Charging

- Allows commercial E-Rickshaws to charge rapidly be
- Doubles daily earning potential for transport fleet op

3,500+ Heavy Commercial Cycles

- Over 7 years of daily deep-discharge driving range
- Eliminates frequent lead-acid battery replacement cost

IP67 Submersible Waterproofing

- Hermetically sealed metal casing handles water-log
- Protects cells from road gravel, mud, wash-downs and d

Smart Bluetooth Fleet App

- Driver monitors speed, state-of-charge, and remain
- Fleet managers track vehicle health and battery status

Lightweight High Energy Density

- Weighs 70% less than equivalent lead-acid battery
- Increases vehicle mileage and reduces wear on tyres &

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DUAK ENERGY | DUAK HIGH-POWER EV BATTERY SERIES

COMPLETE ENGINEERING SPECIFICATIONS & REGULATORY COMPLIANCE DATASHEET

TECHNICAL SPECIFICATIONS	EV-48V 100Ah	EV-51.2V 100Ah	EV-60V 120Ah	EV-72V 150Ah
Nominal Voltage (V)	48.0	51.2	60.0	72.0
Rated Battery Capacity (Ah)	100	100	120	150
Total Stored Energy (Wh)	4,800 Wh	5,120 Wh	7,200 Wh	10,800 Wh
Standard Charging Current (A)	25A (0.25C)	30A (0.3C)	40A (0.33C)	50A (0.33C)
Max. Fast Charge Current (A)	50A (0.5C)	50A (0.5C)	80A (0.66C)	100A (0.66C)
Max. Continuous Discharge (A)	100A	120A	150A	180A
Peak Surge Discharge (5s)	200A	250A	300A	350A
Cycle Life (@25°C, 100% DoD)	> 3,500	> 3,500	> 3,500	> 3,500
BMS Protection Thresholds	Dual Active	Dual Active	Dual Active	Dual Active
Ingress Protection Rating	IP67	IP67	IP67	IP67
Operating Temperature	-15°C ~ +60°C	-15°C ~ +60°C	-15°C ~ +60°C	-15°C ~ +60°C
Dimensions (W x H x D) (mm)	350x240x220	380x250x230	420x280x250	480x310x270
Standard Product Warranty	3 Years	3 Years	3 Years	3 Years

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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