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 X-HYBRID LV

6kW – 15kW 3-PHASE

COMMERCIAL & RESIDENTIAL LOW-VOLTAGE 3-PHASE INVERTE

FLAGSHIP SERIES



KEY TECHNICAL BENCHMARKS & RATINGS

Nominal Output Power	6kW / 8kW / 10kW / 12kW / 15kW
AC Grid Output Phases	3-Phase (400V / 230V, 50Hz)
Dual MPPT Tracking	2 Independent Strings (99.9% E
Startup DC Voltage	150V Low-Voltage Startup
MPPT Voltage Range	160V - 950V Operating Window
Max PV Input Current	18A / String (Bi-Facial Ready)
Peak Solar Efficiency	98.4% (Euro Efficiency 97.8%)
Max Continuous Current	190A / 210A Fast BMS Handshake
Battery Operating Range	40V - 60V (Safe Low-Voltage LF
UPS Auto-Transfer Time	< 10ms Seamless Auto-Switch

KEY ADVANTAGES & ENGINEERING EXCELLENCE

Safety & Reliability

- **IP65 Weatherproof Sealed Enclosure**
- Integrated Type II AC/DC Surge Arresters (SPD)

Advanced MPPT Tracking

- **99.9% Ultra-High Tracking Efficiency**
- Shade-Tolerant Dynamic Multi-Peak Algorithm

Parallel Scalability

- **Supports up to 10 Inverters in Parallel**
- Seamless DG / Diesel Generator Handshake

Universal LFP Handshake

- **Plug-and-Play with DUAK ESS Batteries**
- Direct BMS Sync with all Tier-1 LFP Chemistry

Intelligent Cloud IoT App

- **Real-Time Remote Monitoring (iOS/Android)**
- 24/7 Diagnostics & Automatic OTA Firmware

Touchscreen OLED Display

- **Intuitive Graphical Touchscreen Interface**
- 100% One-Touch Parameter & Grid Setup

DUAK ENERGY PVT. LTD. | Works: RIICO Industrial Area, Jaipur, Rajasthan, India

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DUAK ENERGY | DUAK X-HYBRID INVERTER SERIES

COMPLETE ENGINEERING SPECIFICATIONS & REGULATORY COMPLIANCE DATASHEET

TECHNICAL SPECIFICATIONS	6kW	8kW	10kW	12kW	15kW
Max. Recommended PV Power (W)	9,000	12,000	15,000	18,000	22,500
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000
MPPT Voltage Operating Range (V)	160 - 950	160 - 950	160 - 950	160 - 950	160 - 950
No. of MPPTs / Strings per MPPT	2 / 1	2 / 1	2 / 2	2 / 2	2 / 2
Rated AC Output Active Power (W)	6,000	8,000	10,000	12,000	15,000
Nominal AC Grid Voltage	400V / 230V	400V / 230V	400V / 230V	400V / 230V	400V / 230V
Total Harmonic Distortion (THD)	< 2.5%	< 2.5%	< 2.5%	< 2.5%	< 2.5%
Battery Chemistry Supported	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Battery Voltage Range (V)	40 - 60	40 - 60	40 - 60	40 - 60	40 - 60
Max. Charge / Discharge Current (A)	120 / 120	150 / 150	190 / 190	210 / 210	240 / 240
BMS Communication Interface	CAN / RS485	CAN / RS485	CAN / RS485	CAN / RS485	CAN / RS485
Max. Solar Inverter Efficiency	98.2%	98.4%	98.4%	98.5%	98.5%
Ingress Protection Degree	IP65	IP65	IP65	IP65	IP65
Operating Temperature Range	-25°C ~ +60°C	-25°C ~ +60°C	-25°C ~ +60°C	-25°C ~ +60°C	-25°C ~ +60°C
Dimensions (W x H x D) (mm)	520x705x258	520x705x258	520x705x258	520x705x258	520x705x258
Standard Product Warranty	5 / 10 Yrs	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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