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 MI-SERIES

800W - 2000W QUAD-MPPT

MODULE-LEVEL HIGH-EFFICIENCY SMART MICRO INVERTER

FLAGSHIP SERIES



KEY TECHNICAL BENCHMARKS & RATINGS

Rated AC Output Power	:	800W / 1200W / 1600W / 2000W
Independent MPPT Inputs	:	2 to 4 Independent Channels
Peak Inverter Efficiency	:	96.7% (CEC Efficiency 96.5%)
Safe Low DC Voltage	:	16V - 60V (Zero DC Arc Hazard)
Max DC Input Current	:	14A x 4 (Compatible with 670W+
Night Standby Power	:	< 50mW Ultra-Low Consumption
Weatherproof Armor	:	IP67 Submersible Waterproof
Wireless IoT Module	:	Sub-1G / Wi-Fi / Zigbee Inbuil
Safety Rapid Shutdown	:	Integrated NEC 2017 / 2020 Rea
Design Life Expectancy	:	25-Year Architectural Longevit

KEY ADVANTAGES & ENGINEERING EXCELLENCE

Module-Level MPPT Optimization

- Individual panel peak power tracking
- Eliminates mismatch losses from dust & partial shade

Zero High-Voltage DC Hazard

- Max rooftop DC voltage is below 60V
- 100% eliminates high-voltage DC arc fire hazard

Integrated Rapid Shutdown

- Complies with NEC 690.12 rapid shutdown
- Provides complete safety for rooftop maintenance

Per-Panel Cloud IoT Analytics

- Real-time generation data for every panel
- DUAK Cloud mobile app diagnostics & alerts

IP67 Submersible Armor

- Fully potted hermetically sealed casing
- Resists severe tropical rain, dust storms & humidity

25-Year Industrial Architecture

- Automotive-grade semiconductors & components
- Designed to operate reliably for 25+ years

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DUAK ENERGY — THE NAME OF TRUST

DUAK ENERGY | DUAK MICRO INVERTER SERIES

COMPLETE ENGINEERING SPECIFICATIONS & REGULATORY COMPLIANCE DATASHEET

TECHNICAL SPECIFICATIONS	MI-800	MI-1200	MI-1600	MI-2000 PRO
Max. Recommended PV Power (W)	2x 540W+	2x 670W+	4x 540W+	4x 670W+
MPPT Voltage Operating Range (V)	16 - 60	16 - 60	16 - 60	16 - 60
No. of MPPTs / Inputs	2 / 2	2 / 2	4 / 4	4 / 4
Max. Input DC Current (A)	2x 14A	2x 16A	4x 14A	4x 16A
Rated AC Output Power (VA)	800	1200	1600	2000
Nominal Output Voltage / Freq.	230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz
Nominal Power Factor (cos ϕ)	> 0.99	> 0.99	> 0.99	> 0.99
Peak Inverter Efficiency	96.7%	96.7%	96.7%	96.7%
Nominal MPPT Efficiency	99.8%	99.8%	99.8%	99.8%
Night Time Power Consumption	< 50mW	< 50mW	< 50mW	< 50mW
Operating Ambient Temperature	-40°C ~ +65°C	-40°C ~ +65°C	-40°C ~ +65°C	-40°C ~ +65°C
Enclosure Protection Rating	IP67	IP67	IP67	IP67
Dimensions (W x H x D) (mm)	280x210x35	300x230x38	330x250x42	350x260x45
Standard Product Warranty	12 / 25 Yrs	12 / 25 Yrs	12 / 25 Yrs	12 / 25 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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