



CYBORG[®]
 NETWORK COMMUNICATIONS
 SECURE • RELIABLE • CONNECTED

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POWERING MISSIONS.
 ANYWHERE.

3kW METHANOL FUEL CELL HYBRID POWER SYSTEM

ALL-IN-ONE RACK - FUEL CELL + BATTERY + INVERTER + EMS + METHANOL TANK

STATUS DISPLAY
 System status & parameters

FUEL CELL
 3kW Class

DC DISTRIBUTION & PROTECTION

LFP BATTERY
 5-10kWh
 (48V System)

INVERTER
 3kVA, 230VAC

EMS & CONTROL SYSTEM



METHANOL TANK
 (10L)



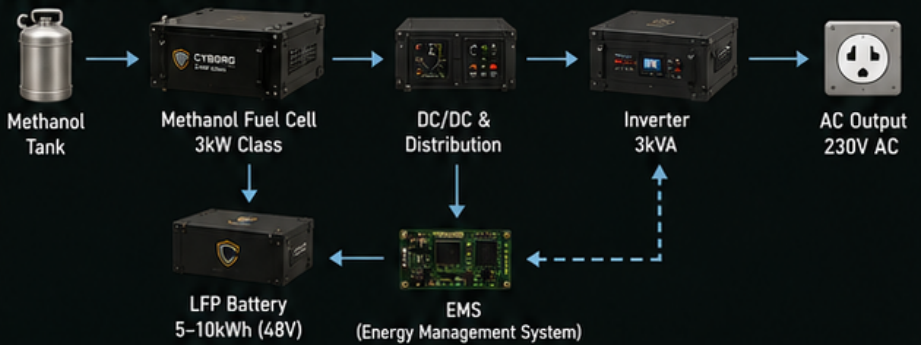
KEY FEATURES

- ✓ Compact all-in-one rack design
- ✓ Methanol fuel cell for silent operation
- ✓ 5-10kWh LFP battery backup
- ✓ 3kVA pure sine wave inverter
- ✓ Intelligent EMS for power management
- ✓ Integrated methanol tank (10L)
- ✓ Wheel-mounted, portable & rugged
- ✓ Ideal for defence, telecom, remote sites

TECHNICAL SPECIFICATIONS

ITEM	SPECIFICATION
Rated AC Power Output	3kW (3kVA)
Peak Power Output	3.5kW (5s)
AC Output	230VAC, 50Hz, Single Phase
DC System Voltage	48V DC
Battery Capacity	5 - 10kWh (LFP, 48V)
Fuel	Methanol + Water (60% / 40%)
Fuel Consumption	0.85 L / kWh
System Efficiency	45% (Max) 42% (Average)
Inverter	3kVA Pure Sine Wave
Operating Temperature	-20°C to 55°C
Storage Temperature	-20°C to 60°C
Noise Level	≤ 65dB @ 1m
Protection	Over-voltage, Over-current, Short circuit, Over-temperature
Communication	CAN / RS485 / Ethernet
Methanol Tank Capacity	10 Liters (Integrated)
Dimension (W*D*H)	600 × 900 × 1100 mm
Weight (Approx.)	180 - 220 kg

SYSTEM BLOCK DIAGRAM



APPLICATIONS



SILENT &
 VIBRATION FREE



CLEAN & LOW
 EMISSION



HIGH
 RELIABILITY



EASY
 TO MOVE



BUILT FOR TOUGH
 ENVIRONMENTS



SECURE. CONNECTED. POWERED FOR MISSION SUCCESS.



PROUDLY
 MADE IN INDIA