



INVERTER CATALOG

**PANTHERA
ELECTRIC**

**THE NEW STANDARD IN UNINTERRUPTED LIVING
POWER WITHOUT THE EFFORT**

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Panthera Electric is a trusted Indian power-solution brand delivering advanced inverter and energy technologies designed specifically for Indian power conditions. Our products are engineered for long-lasting backup, high efficiency, and stable performance for homes, offices, and commercial spaces. Driven by innovation, we focus on smart engineering, robust safety, and user-friendly designs.

- **Our Strategic Focus:**
- **Performance:** Reliable energy delivery.
- **Durability:** Built to withstand years of use.
- **Safety:** Integrated multi-level protection systems.
- **Dealer Growth:** Committed to our partner network.





THE LITHIUM ADVANTAGE

Panthera Lithium systems provide significant benefits over traditional lead-acid technology

FEATURE	PANTHERA LITHIUM	TRADITIONAL LEAD-ACID
Cycle Life	2,000 – 6,000 Cycles	300 – 600 Cycles
Charging Time	Fast (4–5 Hours)	Slow (8–12 Hours)
Maintenance	Zero / Maintenance Free	Water top-up & regular care needed
Energy Usage	Long Backup (~90% Usable)	Short Backup (~50% Usable)
Weight	Lightweight / Wall-Mountable	Extremely Heavy & Bulky

12 Volt Inverter



Model	Capacity	Stored Energy	Continuous Discharge	Weight Range
PE-12105	105Ah	~1.34 kWh	100A	15kg – 25kg
PE-12125	125Ah	~1.60 kWh	125A	18kg – 28kg
PE-12130	130Ah	~1.66 kWh	130A	20kg – 30kg
PE-12140	140Ah	~1.79 kWh	140A	22kg – 32kg
PE-12150	150Ah	~1.92 kWh	150A	25kg – 35kg

Technical Performance

- **Cycle Life:** Offers 2,000 to 6,000 cycles depending on the model.
- **Charging:** Fast charging capability reaches full capacity within 5 hours.
- **Maintenance:** Completely maintenance-free with zero water topping required.
- **Usable Energy:** Provides approximately 90% to 100% usable energy compared to only 50% in lead-acid models.
- **Warranty:** Includes a 3-year battery guarantee, 2-year battery warranty, and 1+1 year inverter warranty.



Load	105Ah lithium	125Ah lithium	130Ah lithium	140Ah lithium	150Ah lead-acid equivalent backup
200W	6.5 hours	7.6 hours	7.8 hours	8.4 hours	3.8 to 4.5 hours
400W	3.4 hours	3.8 hours	3.9 hours	4.2 hours	1.9 to 2.3 hours
600W	2.2 hours	2.5 hours	2.6 hours	2.8 hours	1.2 to 1.5 hours





Model	Capacity	Stored Energy	Continuous Discharge	Weight Range
PE-24105	105Ah	~2.68 kWh	105A	22kg – 35kg
PE-24130	130Ah	~3.12 kWh	130A	26kg – 40kg
PE-24140	140Ah	~3.36 kWh	140A	27kg – 40kg
PE-24150	150Ah	~3.84 kWh	150A	30kg – 45kg
PE-24200	200Ah	~5.12 kWh	200A	45kg – 60kg

Key Features:

- **Life Cycle:** High durability with 2,000 to 4,000+ cycles.
- **Integrated Safety:** Built-in BMS (Battery Management System) provides overcharge, over-discharge, short-circuit, and temperature protection.
- **Efficiency:** Fast charging reaching 100% capacity in approximately 4-5 hours



LOAD	PE-24130 (130Ah)	PE-24140 (140Ah)	PE-24150 (150Ah)	PE-24200 (200Ah)
200W (Basic: 3 Fans + 4 LED Bulbs)	~14.8 Hours	~16.0 Hours	~17.1 Hours	~22.8 Hours
500W (Standard: TV + Fridge + 2 Fans)	~5.9 Hours	~6.4 Hours	~6.8 Hours	~9.1 Hours
800W (Medium: Laptop + Mixer + Lights)	~3.7 Hours	~4.0 Hours	~4.3 Hours	~5.7 Hours
1000W (Heavy: Iron or Small Pump)	~3.0 Hours	~3.2 Hours	~3.4 Hours	~4.5 Hours

ENERGY EFFICIENCY & COST

Panthera batteries are engineered to be highly economical, costing significantly less per full charge than standard setups.

- **Stored Energy (140Ah):** Approximately **3.36 kWh** of usable power.
- **Charging Cost:** Approximately **₹27.8 to ₹29.9** for a full charge at ₹8 per unit.
- **High-Rate Charging:** Approximately **₹34.7 to ₹37.3** for a full charge at ₹10 per unit.
- **Wall Efficiency:** Operates at approximately **90% charge efficiency**, minimizing energy waste from the grid.





36V SERIES: PRECISION ENERGY STORAGE

Designed for specialized machinery and medium-scale off-grid solar infrastructure where standard 12V or 24V systems lack the necessary drive.

- **Capacity Range:** Available from **105Ah to 200Ah** configurations.
- **Architecture:** Built using maintenance-free LiFePO4 cells with a stable nominal voltage of **38.4V**.
- **Weight Advantage:** Offers a significantly lighter footprint than lead-acid banks, allowing for more flexible installation in specialized equipment.
- **Usable Energy Depth:** Supports high depth of discharge (DoD), providing more usable power per cycle compared to traditional batteries that are often limited to 50% usability.

Parameters	36V 100Ah Standard	48V 100Ah
Normal Voltage	38.4 V	51.2 V
Battery Power	~3.84 kWh	5.12 kWh
System DC Voltage	36 V	48 V
Charging Cut-off	~43.2 V	57.6 V
Discharge Cut-off	~32.4 V	44.8 V
Efficiency	>85%	89% (Peak Efficiency)



48V SERIES: INDUSTRIAL GRADE CAPACITY



The 48V series is the powerhouse of the Panthera lineup, designed for seamless integration with high-capacity hybrid inverters and industrial loads.

- **Massive Energy Storage:** A single 200Ah unit provides approximately **10.24 kWh** of stored energy.
- **Smart BMS Communication:** Features an intelligent Battery Management System ready for **parallel scaling**, allowing you to link multiple units to increase total system capacity.
- **Optimized Compatibility:** Fully optimized to work with **Three-Phase Hybrid Solar Inverters**, ensuring efficient energy conversion and high transient response.
- **Life Cycle:** Engineered for longevity, with models typically offering **2,000 to 6,000 cycles** depending on the specific configuration.

ADVANCED SAFETY & PROTECTION

Both the 36V and 48V series include the Panthera **Multi-Level Safety Suite:**

- **BMS Guard:** Actively protects against over-charge, over-discharge, and short-circuits.
- **Thermal Management:** Built-in temperature protection ensures the battery operates within the safe range of **0°C to 60°C** for discharging.
- **LCD Monitoring:** Features a smart display for real-time tracking of battery voltage, load %, and fault status.

36V PRECISION SERIES



Built for specialized agricultural machinery and off-grid textile power systems.

Active Cooling: Integrated passive and active heat dissipation for high-duty cycles.

Series Specs: 38.4V Nominal voltage with high-surge Pure Sine Wave output.

48V INDUSTRIAL GRADE SERIES

The flagship multi-unit stackable configuration for commercial buildings and mini-grids.

Scalable Architecture: Modular design allowing for up to 15 units in parallel (225kWh+ total storage).

Smart Communication: Multi-unit CAN/RS485 bus synchronization for unified BMS management.

High-Density Energy: Stackable modules featuring high-capacity prismatic cells for maximum space efficiency.

USER INTERFACE & MONITORING

Next-generation HD Interactive LCD Interface.

Real-Time Metrics: Live tracking of State-of-Charge (SoC), load current, and cell temperature.

BMS Health Console: Detailed fault diagnostics and per-cell voltage balancing logs.

Hybrid Orchestration: Visual energy flow diagram showing Solar, Grid, and Battery interactions. Feature, Panthera 36V/48V Series, Industrial Standard

- Cell Type, Premium LiFePO4 Prismatic, Li-Ion / LiFePO4
- Cycle Life, "6,000+ Cycles", "2,000 - 4,000 Cycles"
- Charge Rate, 0.5C - 1C (Fast), 0.2C - 0.5C
- Protection, Advanced IP65 Enclosure, IP20 - IP54
- Weight Efficiency, ~100Wh/kg, ~60-80Wh/kg



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PANTHERA ELECTRIC MOBILITY PVT LTD.

Registered Office:- WARD NO- 54, CIRCLE NO- 71, HOLDING NO- 417/8, O, YOGENDRANATH MANNA HOUSE, ARFABAD . NALAPAR , GULZARBAGH, GAIGHAT, PATNA, BIHAR, 800007

Office Address:- BIHAR ENTERPRENEURS ASSOCIATION, OPPOSITE BIHAR MUSEUM, NEXT TO CITY SP RESIDENCE, BAILEY ROAD, PATNA-1, 800001

Head Office:- COLLECTOR GATE, 2ND FLOOR, MILESTONE, 25, JUNCTION BALMATTA, MANGLURU, KARNATAKA 575002

Plant Address:- PLOT NO 425, BEHLOLPUR, SECTOR 63A, NOIDA, UTTAR PRADESH 201301

(+91)-9368678039 | (+91)-7371880875

business@pantheraelectric.com | pantheraelectric@gmail.com

WWW.PANTHERAELECTRIC.COM