

5 kW / 48 V HYBRID INVERTER



MARS ENERGY & MOBILITY

The **5 kW / 48 V Hybrid Inverter** from Mars Energy & Mobility is a high-performance energy conversion solution designed for residential and commercial solar installations. Built on a 48 V battery architecture, it delivers higher efficiency, lower current losses, and stable operation for demanding load conditions.

| Parameter | Specification |
|--------------------|-----------------------|
| Rated Output Power | 5 kW |
| Battery Voltage | 48 VDC |
| AC Output Voltage | 220 V / 230 V / 240 V |
| Output Waveform | Pure Sine Wave |
| Max Efficiency | Up to 94% |
| PV Input | Integrated MPPT |
| Installation | Wall-Mounted |
| Protection Degree | IP20 |

Key Features

- 48 V battery system for improved efficiency and reduced current stress
- Compatible with lead-acid and lithium (Li-ion / LiFePO₄) batteries
- Integrated MPPT solar charge controller
- Fast transfer time for uninterrupted backup power
- Ideal for high-load residential and commercial applications
- Comprehensive protection against overload, short circuit, and over-temperature

Typical Applications

Large residential homes, commercial offices, retail outlets, clinics, small industrial units, telecom sites, and hybrid solar power systems.

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