DYNAPOWER
POWERING A CLEANER PLANET

MPS-125 Energy Storage Inverter

The world's most capable microgrid inverter

This bi-directional 125kW energy storage inverter is transformer-less, air-cooled, and compact, and optimized for behind-the-meter energy storage applications.

Featuring a highly efficient three-level topology, the MPS-125 is easily integrated into customer supplied battery storage systems. Multiple MPS-125 energy storage inverters can be paralleled together to scale to meet the needs of any behind-the-meter energy storage installation.

With all the functional capabilities of the grid-scale CPS inverter family, the MPS-125 supports frequency, voltage, and VAR support applications.

With our patented Dynamic Transfer™ feature, the MPS-125 inverter monitors grid stability and will automatically disconnect and transition to stand-alone mode if a grid disturbance is detected, ensuring consistent power to critical loads.

Key Technologies

- Islanded Operation (UF Mode)
- Dynamic Transfer
- Black Start
- Frequency Compensation Mode (F-Comp)
- Volt-Var Compensation Mode (E-Comp)

TECHNICAL SPECIFICATIONS

Electrical

AC Input Voltage:	**480V_{AC} 3 Phase**
Grid Frequency:	**60 Hz**
Rated Output Apparent Power:	**125kVA**
Rated Output Real Power:	**125kW**
Rated Output Current:	**150A_{RMS}**
Overload AC Current:	**180A_{RMS}**
DC Voltage Range:	**740-1500V_{DC}**
Max DC Current:	**171A_{DC}**
Power Factor:	**0 – 1.00 Leading or Lagging**
Current Harmonics:	**IEEE 1547 Compliant, <5% TDD**
Maximum Efficiency:	**98.7%**
CEC Efficiency:	**97%**

Environmental & Mechanical

Operating Temp:	**-25 to +50°C, De-rated from +45 to +50°C**
Cooling:	**Forced Air Cooled**
Enclosure:	**UL 3R/IP 54**
Max Elevation:	**1000 Meters Full Power** **Up to 3000 Meters with Derating**
Dimensions (H x W x D):	**42.5″ x 29.5″ x 15.5″**
Weight:	**230 lbs**

Certifications & Standards Compliance

UL 1741 Ed. 3	IEEE 519
IEEE 1547	CSA 22.2 #107.1
NFPA 70	

Hardware Protections

- AC Breaker with Shunt Trip
- AC Surge Protection
- DC Disconnect
- DC Input Fuses
- DC Pre-charge (Optional)

Software Protections

- Battery Voltage and Current Curtail Limits to Protect Battery
- AC Current Limiting Pending
- DC Over/Under Voltage, Over Current Faults
- AC Over/Under Voltage, Over/Under Frequency, Over Current Faults
- Anti-islanding Protection (Open Phase at inverter terminals)
- Temperature Monitoring and Protective Power Curtailment
- Watchdog Timer to Detect Loss of Communications

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