

MPS-i Battery Energy Storage System

Reduce cost and complexity with fully integrated behind-the-meter energy storage

The MPS-i combines our highly efficient, UL-1741 SA certified MPS-125 energy storage inverter with lithium-ion batteries in 1, 2, 4 or 6 hour configurations.

This integrated system contains all required protective features, as well as our system level integrating controller, offering a cost advantage when compared to non-integrated systems that require additional add-on items. Highly compact, it is easily deployed on a concrete pad, crushed stone or on the ground with a forklift and minimal labor, reducing system installation costs.

The MPS-i125 interoperates with other distributed energy resources including solar, wind, and diesel gen sets, and can operate in both grid-tied and microgrid applications. Multiple units can be paralleled together to meet the sizing needs of any behind-the-meter installation.

Featuring our proprietary Dynamic Transfer™, it ensures consistent uptime by seamlessly transitioning from grid-tied to battery backup power in the event of a grid disturbance. Additionally, our patented black start technology can restore power to your facility in the event of a complete power outage, without the need for an external power source.



Features

- MPS-125 Smart Energy Storage Inverter (UL 1741 SA)
- Li-ion Batteries in Outdoor Rated NEMA 3R/IP 54 Enclosures
- System Level Integrating Controller
- All LV AC and DC Switchgear
- Fire Suppression System
- DC Pre-Charge
- Anti-islanding with UL Compliant Trip Points
- Surge Protection



TECHNICAL SPECIFICATIONS

Batteries

Discharge Duration **1 to 6 hours**

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

Operating Temp: **-25 to +50°C, De-rated from +45 to +50°C**
Cooling: **Forced Air Cooled**
Enclosure: **NEMA 3R/IP 54**
Max Elevation: **1000 Meters Full Power
Up to 3000 Meters with Derating**

Certifications & Standards Compliance

Inverter **UL 1741 SA
IEEE 1547
IEEE 519
CSA 22.2 #107.1**
Batteries **NFPA 70
UL 9540A
UL 1973**

Hardware Protections

AC Breaker with Shunt Trip **DC Input Fuses**
AC Surge Protection **DC Pre-charge**
DC Disconnect

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

Key Technologies

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



DYNAPOWER

85 Meadowland Drive, South Burlington, Vermont USA 05403

1.802.860.7200 | sales@dynapower.com

[dynapower.com](https://www.dynapower.com)

