



The **DPS®-i-500** is a fully-integrated behind the meter energy storage system that combines Dynapower's efficient UL 1741 **DPS®-500** with Li-Ion batteries in a temperature controlled battery NEMA-rated enclosure. The highly compact integrated system is easily deployed on a concrete pad, crushed stone or on the ground with a forklift and minimal labor, system reducing installation costs for integrators and system owners.

The system enables the easy install of DC-coupled energy storage to new and existing PV system arrays. DC-coupled systems enable clipping capture of excess curtailed PV energy while reducing the balance of plant cost for system integrators.

Multiple **DPS®-i-500** systems can be paralleled together to meet the sizing needs of any utility-scale solar plus storage installation

#### FEATURES:

- + DC Overcurrent Protection
- + DC Disconnect
- + Integrated DC Input Fuses
- + Redundant HVAC cooling systems
- + Fire Suppression System
- + DC Pre-Charge
- + MPPT
- + Central Inverter Agnostic
- + Overlapping DC voltage ranges

# DYNAPOWER

## DPS®-i-500 ENERGY STORAGE SYSTEM

### BATTERY SPECIFICATIONS

Energy Rating	<b>2, 4, and 6 Hour</b>
Power Rating	<b>500kW</b>
Certifications	<b>UL 1973 (Tray), UL 1642</b>

### GRID CONNECTION

DC Input Voltage Range (Battery Port)	<b>100-1500 V<sub>DC</sub></b>
DC Input Voltage Range (PV Port)	<b>100-1500 V<sub>DC</sub></b>
Max Continuous Power Rating	<b>600 kW</b>
Max Continuous Current Rating	<b>500 A<sub>DC</sub></b>
Efficiency Average	<b>98.2%</b>
Aux/Controls Power	<b>120/277 V, 1-ph, 60Hz, 1kVA service 230V, 1-ph, 50Hz, 1kVA service</b>
Battery Technology	<b>Compatible with all battery technologies</b>

### ENVIRONMENTAL SPECIFICATIONS

Operating Temp	<b>-35 to 50°C, De-rated from 45 to 50°C</b>
Cooling	<b>Forced Air Cooled</b>
Rated Max Elevation	<b>1,000 Meters Full Power; Up to 3,000 Meters With Derating</b>
Enclosure	<b>UL 3R / IP 54 (Outdoor)</b>
Cable Connections	<b>Bottom or Side Entry</b>

### COMPLIANCE

Safety Certifications	<b>IEC / EN 61000-6-4; IEC / EN 61000-6-2; CISPR 11 / EN 55011; FCC Part 15 Class A; IEEE Std C37.90.2 UL 1741; IEC 62109-1; IEC 62109-2</b>
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### USER INTERFACE

Remote Communication	<b>Modbus TCP/IP</b>
Local Indicators	<b>Lamps on front panel indicating operation mode and alarm/fault status</b>

### SAFETY

Faults	<b>Over-temperature, DC Over Voltage, DC Over Current</b>
Safety Features	<b>Anti-islanding with UL Compliant trip points, Hardware Over Current Protection, Surge Protection, Battery Overvoltage Protection, DC Disconnection &amp; Protection</b>



### EXPERIENCE YOU CAN TRUST

Dynapower is a leader in the design and manufacture of four-quadrant bi-directional energy storage inverters and DC Converters. The MPS®, CPS® and DPS® inverter product lines are IEEE and UL1741 compliant; offer sub-cycle response with zero voltage ride-through; feature a Dynamic Transfer function that allows both grid-tied or stand-alone (grid forming) modes. Dynapower inverters and converters are deployed globally in both grid-tied and microgrid installations, enabling increased penetration of renewable generation resources and grid resiliency.

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#### certifications

