

**DPS-i DC-Coupled Battery Energy Storage System**

**Reduce costs and complexity  
with fully integrated DC-coupled  
solar plus storage.**

**Our DPS-i is a fully integrated DC-coupled battery energy storage system designed to provide reliable, flexible, and cost-effective storage for central inverter-based solar power plants.**

This compact system integrates our highly efficient DPS-500 DC-DC converter with Li-Ion batteries in 1, 2, 4, or 6 hour configurations. The DPS-i enables clipping and curtailment recapture of excess PV energy while reducing the balance of plant cost for system integrators. This integrated storage system is easily deployed on a concrete pad, crushed stone or on the ground with a forklift and minimal labor, reducing system installation costs.

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

**Features**

- DPS-500 DC-to-DC Converter
- Li-ion Batteries in Outdoor Rated NEMA 3R/IP 54 Enclosures
- System Level Integrating Controller
- Integrated Battery Overvoltage Protection
- DC Contactor and Precharge on Battery Port Included
- Integrated DC Disconnect and DC Fusing
- Fire Suppression System



## TECHNICAL SPECIFICATIONS

### Batteries

Discharge Duration **1 to 6 hours**

### Electrical

DC Input Voltage Range (Battery Port) **100-1500V<sub>DC</sub>**  
 DC Input Voltage Range (PV Port) **100-1500V<sub>DC</sub>**  
 Maximum Continuous Power Rating **500kW**  
 Maximum Continuous Current Rating **+/-500A<sub>DC</sub>**  
 Maximum Efficiency **99%**  
 Average Efficiency **98.2%**  
 Aux/Controls Power **Customer supplied 120V, 1-ph, 60Hz, 1kVA service**  
**Customer supplied 230V, 1-ph, 50Hz, 1kVA service**

### Environmental

Operating Temp **-25 to +55°C**  
 Cooling (DPS Converter) **Forced Air Cooled**  
 Enclosure **NEMA 3R/IP 54**  
 Max Elevation **1000 Meters full power**  
**3000 Meters with Derating**

### Certifications & Standards Compliance

Batteries **UL 1973**  
**UL 9540A**  
 Power Conversion **UL 1741**  
**IEC 62109-1**  
**IEC / EN 61000-6-4**  
**IEC / EN 61000-6-2**  
**CISPR 11 / EN 55011**  
**FCC Part 15 Class A**  
**IEEE Std C37.90.2**

### Hardware Protections

DC Disconnect **DC Contactor and Precharge on Battery Port**  
 DC Fusing

### Software Protections

DC Over-voltage **Over-temperature**  
 DC Under-voltage **Fuse failure**  
 DC Over-current

### Key Technologies

Clipping Recapture **Low Voltage Harvesting**  
 Curtailment & Outage Recapture **Ramp Rate Control+**  
 Energy Time Shifting

### User Interface

Remote Communications **Modbus TCP/IP**  
 Local Indicators **Lamps on front panel indicating operation mode & alarm/fault status**



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