The patent pending DPS-500 is a bidirectional DC-to-DC converter. The intended end application for this converter is to interface battery energy storage with new and existing 1000V and 1500V central inverter based PV power plants.

The PCS is capable of operating in voltage, current and power control modes with the capability of on-the-fly switching between these modes. Additionally, advanced automatic excess PV energy recapture and time-shift of PV energy may be realized using the DPS-500 in solar-plus-storage installations.

Up to eight units can be paralleled together to provide between 500kW and 4MW of storage power.
**ELECTRICAL SPECIFICATIONS**

- DC Input Voltage Range (Battery Port) 550-1500 V\(_{\text{DC}}\)
- DC Input Voltage Range (PV Port) 550-1500 V\(_{\text{DC}}\)
- Max Continuous Power Rating 500 kW
- Max Continuous Current Rating 500 A\(_{\text{DC}}\)
- Efficiency Average 98.2%
- Aux/Controls Power 120V, 1-ph, 60Hz, 1kVA service
- Battery Technology Compatible with all battery technologies

**ENVIRONMENTAL SPECIFICATIONS**

- Operating Temperature -25 to +50°C
- Cooling Forced Air Cooled
- Rated Max Elevation 1000m above sea-level without de-rating
- Enclosure Outdoor NEMA 3R
- Weight 1300 lbs.
- Dimensions (LxWxH) 33.5” x 39.4” x 80.50”
- Cable Connections Bottom or Side Entry

**COMPLIANCE**

Safety Certifications  
- 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

**USER INTERFACE**

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

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**ABOUT RAYCHEM RPG**

30 Years of Engineering Excellence you can Trust

Raychem RPG, in technological collaboration with Dynapower, manufactures world class Energy Storage bi-directional inverters. It recently commissioned FIRST OF ITS KIND PROJECT in INDIA with installation of MW scale Micro-Grid Energy Storage Lithium BESS Solution at Central Electronics Limited (CEL), Sahibabad in UP, India.

**ABOUT DYNAPOWER**

Experience you can Trust

Dynapower is a leader in the design and manufacture of four-quadrant bi-directional energy storage inverters. Our MPS™, CPS™ and SPS product lines are IEEE and UL1741 compliant; offer sub-cycle response with zero voltage ride-through; feature a Dynamic Transfer function that can be operated in both grid-tied or stand-alone (grid forming) modes. Dynapower inverters are deployed globally as grid-tied energy storage inverters and as micro-grid inverters, enabling increased penetration of renewable generation resources.

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