

Pioneering Technological Revolution  
in Energy (Battery) Storage Solutions

**DPS-250**  
250kW BI-DIRECTIONAL DC-TO-DC CONVERTER  
FOR UTILITY-SCALE SOLAR-PLUS-STORAGE



Scalable  
from  
250kW  
to 2MW

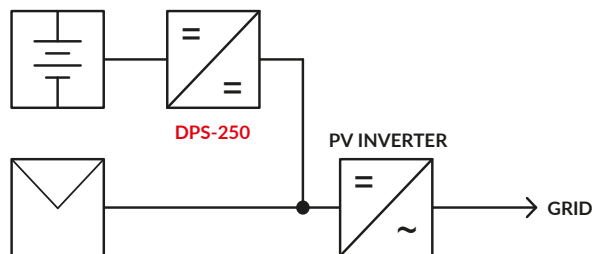
The patent pending **DPS-250** is a DC power conversion system (PCS). The end application for the power conversion system is intended to be interfacing of battery energy storage with existing or new 1,000V to 1,500 V PV arrays and central inverter systems.

The PCS is capable of operating in voltage, current and power control modes with the capability of on-the-fly switching between the modes. Additionally, advanced automatic excess PV energy recapture and time-shift of PV energy may be realized using the patent pending **DPS-250** in solar plus storage installations.

Up to eight units can be paralleled together to provide between 250kW and 2MW of storage power.

The **DPS-250** includes:

- + Integrated DC Disconnect
- + Integrated DC Input Fuses



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### ELECTRICAL SPECIFICATIONS

DC Input Voltage Range (Battery Port)	550-1500 V <sub>DC</sub>
DC Input Voltage Range (PV Port)	550-1500 V <sub>DC</sub>
Max Continuous Power Rating	250 kW
Max Continuous Current Rating	+/-312.5 A <sub>DC</sub>
Efficiency Average	98.2% (actual)
Aux/Controls Power	Customer supplied 120V, 1-ph, 60/50Hz, 1kVA service service (Other options available)
Battery Technology	Compatible with all battery technologies

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-10 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

### PROTECTIONS & CERTIFICATIONS

DC Disconnection & Protection (PV)	Built-In
DC Disconnection & Protection (ESS)	Built-In
Battery Overvoltage Protection	Built-In
Safety Certifications	UL-1741 (pending)

### USER INTERFACE

Remote Communication	Modbus TCP/IP
Remote Monitoring	Real time monitoring with automated alerts and data logging
Local Indicators	on front panel indicating operation mode & alarm/fault status

### 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.

**Raychem RPG**

[raychemrpg.com](http://raychemrpg.com)

#### Sales & Marketing Offices:

A-702, 7th Floor, Thane One, DIL Complex, Ghodbunder Road, Majiwada, Thane West 400 610

#### Factory:

Safari Crossing, Near Halol GIDC | Village:Kanjari Taluka:Halol | Dist:Panchmahal | Gujarat 389950