

Pioneering Technological Revolution  
in Energy (Battery) Storage Solutions

**DPS-375**  
375kW BI-DIRECTIONAL DC-TO-DC CONVERTER  
FOR UTILITY-SCALE SOLAR-PLUS-STORAGE



Scalable  
from  
375kW  
to 3MW

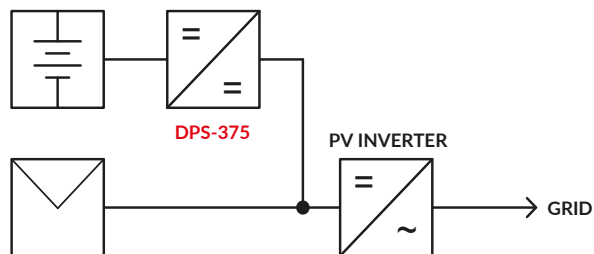
The patent pending **DPS-375** is a DC power conversion system (PCS). The end application for the power conversion system is intended to be interfacing of battery energy storage with existing or new 1,000V to 1,500 V PV arrays and central inverter systems.

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-375** in solar plus storage installations.

Up to eight units can be paralleled together to provide between 375kW and 3MW of storage power.

The **DPS-375** includes:

- + Integrated DC Disconnect
- + Integrated DC Input Fuses



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## DPS-375 375kW BI-DIRECTIONAL DC-TO-DC CONVERTER FOR UTILITY-SCALE SOLAR-PLUS-STORAGE



### 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           | 375 kW   |
| Max Continuous Current Rating         | +/-312.5 A <sub>DC</sub>   |
| Efficiency Average                    | 98.2% (actual)   |
| Aux/Controls Power                    | Customer supplied 120V, 1-ph, 60Hz, 1kVA 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               | UI-1741  |

### USER INTERFACE

|                      |   |
|----------------------|---|
| Remote Communication | Modbus TCP/IP   |
| Remote Monitoring    | Real time monitoring with automated alerts and data logging         |
| Local Indicators     | Lamps 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:

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