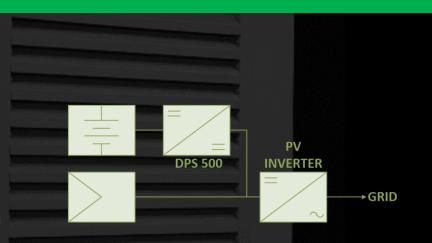


Manufactured by Newen Systems with Dynapower Technology

## Bi-Directional DC-DC Converter (500 kW)

- CLIPPING RECAPTURE
- CURTAILMENT RECAPTURE
- **ENERGY TIME SHIFTING**
- LOW VOLTAGE HARVESTING
- RAMP RATE CONTROL



## **NEWEN SYSTEMS PVT. LTD.**

Newen Systems in technological collaboration with Dynapower, manufactures world class Energy Storage Bi-directional inverters, Microgrid Controllers & DC-DC Converters. Made in India, our energy storage solutions are engineered to excel and customized to the specific needs of customers for "Front of The Meter" and "Behind The Meter" solutions.

## DYNAPOWER COMPANY LLC.

Dynapower is a leader in the design and manufacture of four-quadrant bi-directional energy storage inverters. The MPS™, CPS™ and DPS™ 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 on the grid.

## DIRECT-POWER SYSTEM DPS-100-1500 V DATASHEET



The DPS $^{\$}$ -500 is a DC to DC power conversion system (PCS). The end application for the power conversion system (With In-Built MPPT) is intended to be interfacing of battery energy storage with existing or new PV arrays upto 1500 V<sub>dc</sub> and central inverter systems. The PCS can operate 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 DPS $^{\$}$ -500 in solar plus storage installations.

Electrical Specifications	
DC Input Voltage Range (Battery Port)	100-1500 V <sub>DC</sub>
DC Input Voltage Range (PV Port)	100-1500 V <sub>DC</sub>
Max Continuous Power Rating	500 KW (@1000 V <sub>DC</sub> ) 600 kW (@1200-1500 V <sub>DC</sub> )
Max Continuous Current Rating	+/- 500 A <sub>DC</sub>
Peak Efficiency	99%
Efficiency Average	98.2%
Aux/Controls Power 1	20V/230V, 1-ph, 60Hz/50Hz, 1kVA
Battery Technology Compo	atible with all battery technologies
Protection & Certifications	
DC Disconnection & Protection (PV)	External
DC Disconnection & Protection (ESS)	External
Battery Overvoltage Protection	Built-In
Safety Certifications	Compliance as per UL-1741
Remote Monitoring & Communication	Modbus TCP with Automated Alerts
Environmental Specifications	
Operating Temperature	-25° C to +50° C
Cooling	Forced Air Cooled
Rated Max Elevation 1000m	above sea-level without de-rating
Enclosure	RAL 9003, IP 54
Weight in kg	600
Dimensions in mm (LxWxH)	850 x 1000 x 2050
Cable Connections	Bottom & Side Entry
User Interface	
Remote Monitoring & Communication	Local Indicators
Local Indicators	Front Panel Indicating operation mode and Fault status











Address: Survey no. 276 & 290/C ,Shakti logistic park, Makarpura GIDC, Makarpura, Vadodara, Gujarat 390013, India

+91-97699-65049 | sales@newensystems.com | www.newensystems.com