



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.

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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_{dc} 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_{DC}
DC Input Voltage Range (PV Port)	100-1500 V_{DC}
Max Continuous Power Rating	500 KW (@1000 V_{DC}) 600 kW (@1200-1500 V_{DC})
Max Continuous Current Rating	+/- 500 A_{DC}
Peak Efficiency	99%
Efficiency Average	98.2%
Aux/Controls Power	120V/230V, 1-ph, 60Hz/50Hz, 1kVA
Battery Technology	Compatible 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



DYNAPOWER

#startupindia



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