



Manufactured by Newen Systems with Dynapower Technology

# Bi-Directional Inverter (100 kW)

- **PATENTED DYNAMIC TRANSITION FOR SEAMLESS TRANSFER BETWEEN GRID & OFF-GRID MODE**
- **INTEGRATED ISOLATION TRANSFORMER**
- **ACTIVE STANDBY MODE FOR POWER SAVINGS**
- **FULL CURRENT UNBALANCING IN EACH PHASE**
- **PROVEN PRODUCT WITH >500 SYSTEMS ON GROUND GLOBALLY**

## **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 MPST<sup>™</sup>, CPS<sup>™</sup> and DPS<sup>™</sup> 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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**SPECIALIST IN ENERGY MANAGEMENT**

# MICRO-POWER SYSTEM MPS-100-800 V DATASHEET



The MPS® -100 has been optimized for behind-the-meter energy storage applications where reliability and safety are priority. This inverter is designed especially for four quadrant energy storage applications in both grid-tied and micro-grid applications. Multiple units can be paralleled in grid forming mode for micro-grid applications.

Input Specifications	
DC Voltage	580 - 835 V <sub>DC</sub>
Max DC Current	230 A
DC Voltage Ripple	< 1%
Environmental Specification	
Operating Temp	-25 to 50 °C
Cooling	Forced Air Cooled
Related Max. Elevation	1,000 Meters Full Power Up to 3,000 meters with Derating
Enclosure	RAL 7035, IP 54
Dimensions (HXWXD)	1997X1263X1282 mm <sup>3</sup>
Weight in kg	1600
User Interface	
Remote Monitoring & Communication	Modbus TCP with Automated Alerts
Grid Connections	
AC Line Voltage	480 / 415 VAC (+10%, -12%), 3-Ph
AC Line Frequency	60 / 50 Hz (+ / - 0.5%) Settable
Continuous AC Current	120 / 140 A RMS
Overload AC Current	144 / 166 A RMS
Continuous AC Power	100 KW
Overload AC Power	120 KW
Power Factor	0 - 1.0 Leading or Lagging
Current Harmonics	IEEE 1547 Compliant, <5% TDD
Peak Efficiency (Including Isolation Transformer)	95.50%
Additional Features	
Faults	AC Over Voltage, AC Under Voltage, AC Under Frequency, AC Over Frequency, AC Overload, Over-temperature, DC Over Voltage, DC Over Current
Standards Compliance	IEEE 1547, UL 1741 SA, CA Rule 21, & HI Rule 14H
Safety Features	Anti-islanding w/ UL Compliant trip points



**DYNAPOWER**

#startupindia



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