



Manufactured by Newen Systems with Dynapower Technology

# Bi-Directional Inverter (UTILITY SCALE)

- **PATENTED DYNAMIC TRANSITION FOR SEAMLESS TRANSFER BETWEEN GRID & OFF-GRID MODE**
- **BLACK START**
- **E COMP: AUTONOMOUS VOLT/VAR SUPPORT**
- **F COMP: AUTONOMOUS HZ/WATT SUPPORT**
- **ACTIVE STAND-BY MODE**

## **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.

+91-97699-65049 | [sales@newensystems.com](mailto:sales@newensystems.com) | [www.newensystems.com](http://www.newensystems.com)

*SPECIALIST IN ENERGY MANAGEMENT*

# COMPACT-POWER SYSTEM CPS- 1500 V<sub>DC</sub> DATASHEET



The CPS®- 2668 is cost-effective, reliable, and efficient utility-scale energy storage inverters offered in both indoor and outdoor configurations. Featuring a highly efficient three-level topology, Newen's and Dynapower's developed CPS® inverters are air-cooled and designed for four-quadrant energy storage applications in both grid tied and microgrid applications. Multiple CPS® units can be paralleled together to meet customer demand and front of the meter application

<i>Specifications</i>					
kVA Rating	<b>1384kVA</b>	<b>1600kVA</b>	<b>1800kVA</b>	<b>2000kVA</b>	<b>2668kVA</b>
<i>Input DC</i>					
Operating Voltage range	<b>605-1500</b>	<b>700-1500</b>	<b>785-1500</b>	<b>870-1500</b>	<b>1145-1500</b>
Min Voltage for Full Active Power (V)	<b>605</b>	<b>700</b>	<b>785</b>	<b>870</b>	<b>1145</b>
Max Voltage (V)	<b>1500</b>				
Max Continuous Current (A)	<b>2322</b>	<b>2321</b>	<b>2329</b>	<b>2335</b>	<b>2365</b>
Voltage /Current Ripple (%)	<b>1% / &lt;5% for rated current 2% typical</b>				
<i>Output AC</i>					
Continuous AC Power (kW)	<b>1384</b>	<b>1600</b>	<b>1800</b>	<b>2000</b>	<b>2668</b>
Line Voltage (V)	<b>415</b>	<b>480</b>	<b>540</b>	<b>600</b>	<b>800</b>
Line Frequency (Hz)	<b>50</b>				
Continuous AC Current (A)	<b>1928</b>				
Overload AC Current (A)	<b>2314</b>				
Power Factor	<b>+1.0 to -1.0</b>				
Current Harmonics	<b>IEEE 1547 Compliant, &lt;5% TDD</b>				
*Peak Efficiency	<b>98.60%</b>				
<i>Mechanical Specification</i>					
Operating Temperature	<b>-30 to 60°C, De-rated above 45°C</b>				
Cooling	<b>Forced Air Cooled</b>				
Enclosure	<b>IP 54 (Outdoor) &amp; IP20(indoor)</b>				
*Dimension (HXDXW) mm3	<b>2050 x 1250 x 2160</b>				
*Weight in kg	<b>2000</b>				
Storage Temperature	<b>-40°C to 65°C</b>				
<i>Additional Feature</i>					
Faults	<b>AC Over Voltage, AC Under Voltage, AC Under Frequency, AC Over Frequency, AC Overload, Over-temperature, DC Over Voltage, DC Over Current</b>				
Certifications	<b>IEEE 1547, UL 1741 SA, IEEE 519,IEEE 693 ,sun spec 2030.5</b>				
Safety Features	<b>Anti-islanding with UL Compliant trip points, Hardware Over Current Protection, Surge Protection</b>				
Protection	<b>AC breaker with shunt trip, Automatic DC disconnection by contactor, DC fuse</b>				



**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**

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## PRODUCT IMAGE

