



Pioneering Technological Revolution in Energy (Battery) Storage Solutions



The CPS®- 1250 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.

The CPS inverter have advance HMI that allow customer to monitor as well as to configure advance grid supporting modes & parameter. CPS® inverters can be supplied with MV/LV transformers to easily integrate customer supplied battery systems into any network. Outdoor rated CPS® inverters are

enclosed in a NEMA 3R containers that can be moved with a forklift and allow for placement on gravel or concrete pylons, creating installation savings.

- + Black Start for off grid mode
- + Four quadrant operation for both P & Q
- + Peak power compensation
- + LVRT
- + advance Fan speed control for efficiency improvement
- + parallel control allows DG connection with isolation xmer

🚩 DYNAMIC TRANSFER TO OFF GRID MODE

Dynapower's proprietary, patent-pending Dynamic Transfer algorithm monitors grid stability, and upon detecting a grid disturbance, disconnects from the grid. The equipment seamlessly transitions critical loads to stand-alone mode on the load connection and supports 100% phase imbalance in UF mode.

🚩 ECOMP: AUTONOMOUS VOLT/VAR SUPPORT

A Volt Var function that provides immediate and automatic voltage support to the grid.

🚩 INTEGRATED INVERTER SOLUTION

CPS® inverters are an integrated solution containing all required protective features, as well as an AC output breaker, and DC disconnect switch. This creates a cost savings for end users and integrators when compared with other inverters that require additional add-on items needed for battery integration.

🚩 F COMP: AUTONOMOUS Hz/WATT SUPPORT

A Hz-Watt function that provides immediate and automatic frequency support to the grid.

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Specifications						
	650kVA	750kVA	850kVA	950kVA	1000kVA	1250kVA
Input DC						
Battery Voltage Range for full power (V)	720-1500	815-1500	900-1500	985-1500	1030-1500	1275-1500
Min Voltage (V)	720	815	900	985	1030	1275
Max Voltage (V)	1500					
Max Continuous Current (A)	916	934	960	979	986	995
Voltage Ripple (%)	1%					
Output AC						
Continuous AC Power (kW)	650	750	850	950	1000	1250
Line Voltage (V)	415	480	540	600	630	800
Line Frequency (Hz)	50 / 60					
Continuous AC Current (A)	906	904	910	916	918	905
Overload AC Current (A)	1100	1121	1151	1175	1183	1194
Power Factor	+1.0 to -1.0					
Current Harmonics	IEEE 1547 Compliant, <5% TDD					
Peak Efficiency (CEC)	98.50%					
Mechanical Specification						
Operating Temperature	-30 to 60°C, De-rated above 45°C					
Cooling	Forced Air Cooled					
Enclosure	NEMA 3R/IP 54 (Outdoor) & NEMA 1/IP20(indoor)					
Dimension (HDXW) mm3	2181 x 1273 x 1100					
Weight in kg	900					
Storage Temperature	-40°C to 65°C					
Additional Feature						
Faults	AC Over Voltage, AC Under Voltage, AC Under Frequency, AC Over Frequency, AC Overload, Over-temperature, DC Over Voltage, DC Over Current					
Certifications	IEEE 1547, UL 1741 SA,IEE519,IEEE 693					
Safety Features	Anti-islanding with UL Compliant trip points, Hardware Over Current Protection, Surge Protection					
Protection	AC breaker with shunt trip, Automatic DC disconnection by contactor, DC fuse					

ABOUT NEWEN SYSTEMS
Engineering Excellence you can Trust

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.

ABOUT DYNAPOWER
Experience you can Trust

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

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