DYNAPOWER
POWERING A CLEANER PLANET™

CPS-i Battery Energy Storage System

Reduce complexity and speed deployment of utility-scale energy storage

This fully integrated storage system combines our UL-1741 SA certified CPS energy storage inverters with Li-Ion batteries in an outdoor-rated battery enclosure with all associated controls and protection features.

The CPS-i is a high-performance system designed to provide consistent, reliable power. It is easily deployed on a concrete pad, crushed stone or on the ground with a forklift and minimal labor, reducing system installation costs. Multiple CPS-i systems can be paralleled together to meet the sizing needs of any front-of-the-meter or large behind-the-meter installation.

When needed for resiliency applications, the CPS-i utilizes our proprietary Dynamic Transfer™ technology to monitor grid stability and, in the event of disturbance, autonomously and immediately shift a microgrid from grid-tied to battery backup power, ensuring a steady flow of electricity for critical applications. In a complete system power outage, our black start capability restores power without the need for external power.

Features

- CPS-1500 or CPS-3000 Smart Energy Storage Inverter (UL 1741 SA)
- Li-ion Batteries in Outdoor Rated NEMA 3R/IP 54 Enclosures
- System Level Integrating Controller
- All LV AC and DC Switchgear
- Fire Suppression System
- DC Pre-Charge
- Anti-islanding with UL Compliant Trip Points
- Surge Protection

Certified System ISO 9001

c ETL LISTED US Intertek

TECHNICAL SPECIFICATIONS

CPS-i1500

Batteries

Discharge Duration	**1 to 6 hours**

Electrical

AC Input Voltage:	**350V_{AC} / 480V_{AC} / 600V_{AC}**
Grid Frequency**:**	**60 Hz**
Maximum Apparent Power:	**875kVA (@350V_{AC})** **1200kVA (@480V_{AC})** **1500kVA (@600V_{AC})**
Maximum Real Power:	**875kW (@350V_{AC})** **1200kW (@480V_{AC})** **1500kW (@600V_{AC})**
Maximum AC Current:	**1444 A_{RMS}**
DC Voltage Range:	**550-1500V_{DC} (@350V_{AC})** **740-1500V_{DC} (@480V_{AC})** **900-1500V_{DC} (@600V_{AC})**
Maximum DC Current:	**1720A_{DC}**
Power Factor:	**0 – 1.00 Leading or Lagging**
Current Harmonics:	**IEEE 1547 Compliant, <5% TDD**
Maximum Efficiency:	**98.5%**
CEC Efficiency:	**97%**

Environmental

Operating Temp**:**	**-35 to +60°C, De-rated above +45°C**
Max Elevation:	**1000 Meters Full Power** **Up to 3000 Meters with Derating**
Cooling:	**Forced Air Cooled**
Enclosure:	**NEMA 3R/IP 54**

Certifications & Standards Compliance

Batteries	**UL 1973**
	UL 9540A
Power Conversion	**UL 1741 SA**
	IEEE 1547
	CSA 22.2 #107.1
	IEEE 519

Hardware Protections

AC Breaker with Shunt Trip	DC Input Fuses
AC Surge Protection	DC Pre-charge
DC Disconnect	

Software Protections

- Battery Voltage and Current Curtail Limits to protect battery
- AC Current Limiting Pending
- DC Over/Under Voltage, Over Current faults
- AC Over/Under Voltage, Over/Under Frequency, Over Current faults
- Anti-islanding Protection (Open Phase at inverter terminals)
- Temperature Monitoring and protective power curtailment

Key Technologies

- Islanded Operation (UF Mode)
- Dynamic Transfer
- Black Start
- Frequency Compensation Mode (F Comp)
- Volt-VAR Compensation Mode (E Comp)
- AC Current Limiting (In-Rush Current Handling in UF Mode)

DYNAPOWER

85 Meadowland Drive, South Burlington, Vermont USA 05403

1.802.860.7200 | **sales@dynapower.com**

dynapower.com

POWERING A CLEANER PLANET

TECHNICAL SPECIFICATIONS

CPS-i3000

Batteries

Discharge Duration	1 to 6 hours

Electrical

AC Input Voltage:	350VAC / 480V_{AC} / 600V_{AC}
Grid Frequency:	60 Hz
Maximum Apparent Power:	1750kVA (@350V_{AC}) 2400kVA (@480V_{AC}) 3000kVA (@600V_{AC})
Maximum Real Power:	1750kW (@350V_{AC}) 2400kW (@480V_{AC}) 3000kW (@600V_{AC})
Maximum AC Current:	1444 A_{RMS} x 2
DC Voltage Range:	550-1500V_{DC} (@350V_{AC}) 740-1500V_{DC} (@480V_{AC}) 900-1500V_{DC} (@600V_{AC})
Maximum DC Current:	1720A_{DC} x 2
Power Factor:	0 – 1.00 Leading or Lagging
Current Harmonics:	IEEE 1547 Compliant, <5% TDD
Maximum Efficiency:	98.5%
CEC Efficiency:	97%

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Operating Temp:	-35 to +60°C, De-rated above +45°C
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