Princeton Energy Management System (PEMS-250-500)

PRINCETON POWER SYSTEMS

Clean Power Made Simple™

PEMS-250-500

1 Day Installation

Pad-Ready AC Battery System

Features

- TUV Certified to UL1741
- System Controls
- Energy Storage Bays
- Pad Cable Entry
- Side Cable Entry
- Heating & Cooling Systems

Round Trip Efficiency

True Entire System AC-AC 92%

ABOUT PRINCETON POWER SYSTEMS

Princeton Power Systems, based in New Jersey and founded in 2001, designs and manufactures state-of-the-art technology solutions for energy management, microgrid operations and electric vehicle charging. The company is a global leader working with customers and partners across North America, Europe, Africa and the Caribbean. It manufactures UL and CE-certified power electronics that are used in advanced battery operations and alternative energy, with built-in smart functions for ancillary services. The company solves power issues to allow continued growth of distributed renewable energy by providing energy storage solutions that are proven to work, even in harsh environments. Princeton Power Systems builds integrated systems and designs, commissions and operates microgrids for leading and non-profit organizations, including Fortune 500 automakers and industrials. The company proudly manufactures its products in the USA. More information about Princeton Power Systems is available at www.princetonpower.com.

ELECTRICAL

System	250 kW inverter with 500 kWh storage
Battery Chemistry	Lithium Ion
Battery Certification	UL1642, UL1973RU, UN38.3
Inverter Certification	TUV Certified to UL1741/IEEE 1547
Round-trip System Efficiency at Full Load	92%
AC Voltage	480 VAC +10%, -12%, 3-phase 3/4 wire
AC Frequency	60 Hz nominal, 59.3-60.5 Hz (per UL requirement)
Max Continuous AC Power	250 kW AC/250 KVA AC
Energy Storage Capacity measured at AC Terminals	500 kWh
3rd Party Control Interface & Protocol	TCP/RS232/RS485 Modbus

FOOTPRINT & SYSTEM CHARACTERISTICS

Enclosure	NEMA 3R
Height x Width x Depth (ft)	8.1 x 12.0 x 5.3
Recommended Pad Size (ft)	13.0 x 12.3
Weight	15,100 lbs / 6,850 kg
Operating Temperature	-20°C to 50°C / -4°F to 122°F
kWh/f²	8.4

CONTACT US

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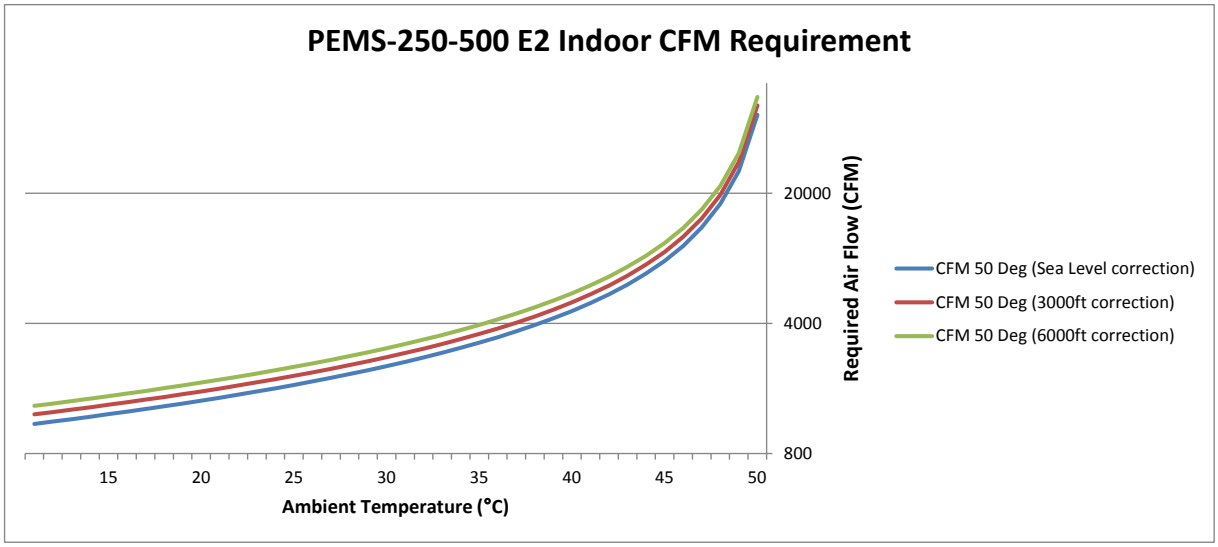
VENTILATION REQUIREMENTS



NOTE: This graph assumes a maximum ambient temperature of 50°C. Allowance should be made for the building heat energy as well as any additional equipment within the room.

RECOMMENDED MINIMUM PAD DIMENSIONS