

MEGAPACK DATASHEET

Specifications are preliminary and subject to change.

Flexible offering designed for utility-scale projects

- Modularity allows greater configuration flexibility
- Supports Capacity Maintenance Agreements (CMA)

Proven inverter and battery technology drives design efficiency

- One Megapack includes up to 17 independent battery modules
- Configurable for 2 to 6+ hour continuous charge/discharge
- Best-in-class round-trip efficiency and thermal system performance

Turnkey solution enables rapid and cost-effective deployment

- Up to 40% expected reduction in EPC costs compared to Powerpack
- Pre-assembled and pre-tested at Tesla's Gigafactory
- No DC connections required onsite



STANDARD SYSTEM SPECIFICATIONS

Megapack is available in 2-hour and 4-hour configurations. Minimum battery AC power and energy specifications are listed below.

AC Power / Energy per Megapack ¹	2-hour: 1363.4 kW / 2726.8 kWh
	4-hour: 688.5 kW / 2754 kWh

Factory configuration of the Megapack to a custom inverter capacity up to the maximum listed below can be requested to meet needs not addressed by the standard configurations. Round-trip efficiency is specified for a full-depth cycle and includes all power conversion and thermal system losses during the cycle.

	Inverter Power [kVA] per Megapack (at 480 V AC)	Round-Trip System Efficiency ¹
2-Hour Maximum	2,312 kVA	89.5%
Standard 2-Hour	1,700 1,600 1,500 kVA	
4-Hour Maximum	1,156 kVA	92.5%
Standard 4-Hour	900 800 700 kVA	

¹ Nominal energy and RTE at 25°C (77°F) including thermal management loads, Day 1

ELECTRICAL INTERFACE

Nominal AC Voltage	480 V AC 3-phase
Nominal Frequency	50 or 60 Hz

MECHANICAL AND MOUNTING

Ingress Ratings	IP66/NEMA 3R (Main enclosure) IP20 (Thermal system)
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Enclosure Dimensions	W: 7168 mm (282 1/4 in) maximum D: 1659 mm (65 1/4 in) H: 2522 mm (99 1/4 in)
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Maximum Weight	25,850 kg (57,000 lb)
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Operating Ambient Temperature	-30°C to 50°C (-22°F to 122°F)
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REGULATORY (Expected Listings)

Lithium-Ion Cells	NRTL listed to UL 1642
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System	NRTL listed to UL 1973, UL 9540, UL 9540A, UL 1741 SA, IEC 62619, IEC 62477-1 IEEE 1547 Compliant to grid codes and safety standards of all major markets
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COMMUNICATIONS

Protocol	Modbus TCP / DNP3 / Rest API
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