

MEGAPACK 2 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 19 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

- Pre-assembled and pre-tested at Tesla's Gigafactory
- No DC connections required on site

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	1297.6 kW / 2595.2 kWh
	2-Hour CMA Only	1459.8 kW / 2919.6 kWh
	4-Hour	771.4 kW / 3085.6 kWh

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

	Inverter Power per Megapack (at 480 V AC)	Round-Trip System Efficiency ¹
2-Hour Maximum	1680 kVA	92%
2-Hour Standard	1600 1500 1400 kVA	
4-Hour Maximum	997.5 kVA	94%
4-Hour Standard	900 800 kVA	

¹Nominal 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)
Enclosure Dimensions	W: 7250 mm (285 ½ in) D: 1600 mm (63 in) H: 2507 mm (98 ¾ in)
Maximum Weight (Mass)	30,500 kg (67,250 lb)
Operating Ambient Temperature	-30°C to 50°C (-22°F to 122°F)

REGULATORY (EXPECTED LISTINGS)

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

COMMUNICATIONS

Protocol	Modbus TCP / DNP3 / Rest API
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PART NUMBER

Megapack 2 (All Variants)	1748844-XX-Y (Where X is a number between 0-9, and Y is a letter.)
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