

L2200-OMNI 20-ft Liquid-Cooled ESS

1,920 kW · 2,231 kWh · 1C liquid-cooled



The L2200-OMNI (M8-20ft-1.92MW/2.23MWh) is a high-rate 20 ft liquid-cooled ESS: 2,231 kWh of LFP storage (>6,000 cycles) through twelve 160 kW string PCS modules — up to 1.92 MW at 400 Vac, charging and discharging at a full 1C. Smart liquid cooling (60 kW cooling / 24 kW heating) holds cell temperatures stable from -25 °C to +55 °C; derating applies above 3,000 m altitude.

1,920 kW

RATED POWER (PCS)

2,231 kWh

RATED CAPACITY (LFP)

1C

CHARGE / DISCHARGE RATE

20-ft

LIQUID-COOLED ENCLOSURE

KEY FEATURES

✓ **High C-Rate Performance**

True 1C charge / discharge for frequency regulation, electricity arbitrage and fast ancillary services.

✓ **Flexible Configuration**

Twelve 160 kW string PCS modules scale output from 480 kW to 1,920 kW — service one module without stopping the container.

✓ **Liquid-Cooled Reliability**

60 kW cooling / 24 kW heating holds cell temperatures tight from -25 °C to +55 °C for >6,000 cycles.

✓ **All-in-One System**

Battery, string converters, BMS, fire suppression and liquid cooling pre-integrated in one 20 ft IP55 container.

TECHNICAL SPECIFICATION

Parameter	L2200-OMNI
Models	L2200-OMNI
General Data	
Dimension (W×D×H, w/o inverter)	6058×2438×2896 mm
Weight	28 t
Working Temperature	-25 °C ~ +55 °C
Protection Class	IP55
Altitude	≤ 4,000 m (derating above 3,000 m)
Humidity	5% ~ 95%
Fire Extinguishing Media	Aerosol
Cooling System	Liquid cooling (cooling 60 kW / heating 24 kW)
Aux. Power Consumption	40 kW (incl. HVAC)
Anti-corrosion	C3
Battery Data	
System Capacity	2,231 kWh
Depth of Discharge	98% (single string)
Cycle Life	> 6,000
DC Voltage Range	716.8 ~ 921.6 V
PCS — On-grid Mode	
PCS Number	12

Parameter	L2200-OMNI
Rated AC Power	160 kW × 12
Rated AC Output Voltage	400 Vac ± 15%
Rated AC Output Frequency	50/60 ± 2.5 Hz
Overload Capacity	176 kVA (1.1× long-term / 1.5× for 10 s)
Power Factor	1.0 (Lagging) ~ 1.0 (Leading)
CEC Efficiency	98%
Operation	
Operation Modes	Ancillary Service / Electricity Arbitrage / Demand Response / Backup
Communication Type	RS485 / CAN / Ethernet
Certification	
Battery & Safety	IEC 62477-1 / IEC 62040-1 / IEC 62619 / IEC 63056 / UKCA / CE / UN 38.3 / VDE 2510-50 / UL 9540A*
Grid Connection	CE LVD / IEC 62477 / IEC 61000 / EN 50549-1 / G99 / AS 4777

Model L2200-OMNI (M8-20ft-1.92MW/2.23MWh) — UL 9540A partial application in progress; full datasheet and per-project configuration available on request.

Specifications are subject to change without notice.