

A2000-OMNI 20-ft All-in-One ESS

1,000 kW · 2,069.76 kWh · 0.5C air-cooled



The A2000-OMNI (M5-20ft-1MW/2MWh) is a 20 ft all-in-one ESS pairing 2,069.76 kWh of LFP storage (98% DoD, >7,000 cycles) with two independent 500 kW PCS modules — up to 1 MW at 400 Vac. Output scales from 250 kW to 1,000 kW to follow demand, while air-cooled thermal management, aerosol fire suppression and IP55 protection back dependable outdoor operation.

1,000 kW

RATED POWER (PCS)

2,069.76 kWh

RATED CAPACITY (LFP)

0.5C

CHARGE / DISCHARGE RATE

20-ft

AIR-COOLED ENCLOSURE

KEY FEATURES

✓ **All-in-One Solution**

2,069.76 kWh LFP storage and dual 500 kW PCS pre-integrated in one certified 20 ft container.

✓ **Plug-and-Play Installation**

One crane lift, one cable set — the container lands pre-commissioned on a prepared pad.

✓ **Flexible Configuration**

Output follows demand from 250 kW to 1 MW; two independent PCS modules keep half the plant online during service events.

✓ **Superior Safety**

Aerosol fire suppression, multi-level electrical protection and IP55 enclosure, certified to IEC 62619, VDE 2510-50 and UL 9540A.

TECHNICAL SPECIFICATION

Parameter	A2000-OMNI
Models	A2000-OMNI
General Data	
Dimension (W×D×H, w/o inverter)	6058×2438×2896 mm
Weight	28 t
Working Temperature	−20 °C ~ +50 °C
Protection Class	IP55
Altitude	≤ 4,000 m
Humidity	5% ~ 95%
Fire Extinguishing Media	Aerosol
Cooling System	Air cooling (40 kW)
Aux. Power Consumption	30 kW (incl. HVAC)
Anti-corrosion	C3 (C5 optional)
Battery Data	
System Capacity	2,069.76 kWh
Depth of Discharge	98% (single string)
Cycle Life	> 7,000
DC Voltage Range	638 ~ 781 V (single string)

Parameter	A2000-OMNI
PCS — On-grid Mode	
PCS Number	2
Rated AC Power	500 kW × 2
Rated AC Output Voltage	400 Vac ± 15%
Rated AC Output Frequency	60 ± 2.5 Hz
Max AC Current	720 A
Overload Capacity	125% ~ 150% @ 200 ms
Power Factor	0.8 (Leading) ~ 1 (Lagging)
CEC Efficiency	97%
Isolation Type	Non-isolated
Operation	
Operation Modes	Peak Shaving / Energy Shifting / Self-Consumption / Ancillary Service
Communication Type	RS485 / CAN / Ethernet
Certification	
Battery & Safety	UN 38.3 / IEC 62619 / IEC 62040-1 / CE / UKCA / VDE 2510-50 / UL 1973 / UL 9540A
Grid Connection	CE LVD / IEC 62477 / IEC 61000 / EN 50549-1 / G99 / AS 4777 / IEC 63056

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Specifications are subject to change without notice.