

A1000-OMNI 10-ft All-in-One ESS

500 kW · 1,034.88 kWh · 0.5C air-cooled



The A1000-OMNI (M5-10ft-500kW/1MWh) is a fully integrated 10 ft all-in-one ESS: 1,034.88 kWh of LFP storage (98% DoD, >7,000 cycles) paired with a 500 kW non-isolated PCS at 400 Vac, 50/60 Hz. Air-cooled thermal management, aerosol fire suppression and C3 (C5 optional) anti-corrosion come standard — the unit arrives pre-integrated and site-ready.

500 kW

RATED POWER (PCS)

1,034.88 kWh

RATED CAPACITY (LFP)

0.5C

CHARGE / DISCHARGE RATE

10-ft

AIR-COOLED ENCLOSURE

KEY FEATURES

✓ **All-in-One Solution**

LFP battery, 500 kW PCS, BMS, aerosol fire suppression and thermal management pre-integrated in one certified 10 ft container.

✓ **Long Time Backup**

Up to 1,034.88 kWh at 98% DoD with >7,000 cycles keeps critical loads covered overnight and through outages.

✓ **Plug-and-Play Installation**

Arrives pre-commissioned — set it on a prepared pad, land one cable set, and commission within a day.

✓ **Easy Set-up & Maintenance**

Air-cooled with front-service access and remote monitoring (RS485 / CAN / Ethernet); C3 (C5 optional) anti-corrosion, sites up to 4,000 m.

TECHNICAL SPECIFICATION

Parameter	A1000-OMNI
Models	A1000-OMNI
General Data	
Dimension (W×D×H, w/o inverter)	2991×2438×2896 mm
Weight	13 t
Working Temperature	-20 °C ~ +50 °C
Protection Class	IP54
Altitude	≤ 4,000 m
Humidity	5% ~ 95%
Fire Extinguishing Media	Aerosol
Cooling System	Air cooling (15 kW)
Aux. Power Consumption	16 kW (incl. HVAC)
Anti-corrosion	C3 (C5 optional)
Battery Data	
System Capacity	1,034.88 kWh

Parameter	A1000-OMNI
Depth of Discharge	98% (single string)
Cycle Life	> 7,000
DC Voltage Range	638 ~ 781 V (single string)
PCS — On-grid Mode	
Rated AC Power	500 kW
Rated AC Output Voltage	400 Vac ± 15%
Rated AC Output Frequency	50/60 ± 2.5 Hz
Max AC Current	760 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

Model A1000-OMNI (M5-10ft-500kW/1MWh) — full datasheet and per-project configuration available on request.
Specifications are subject to change without notice.