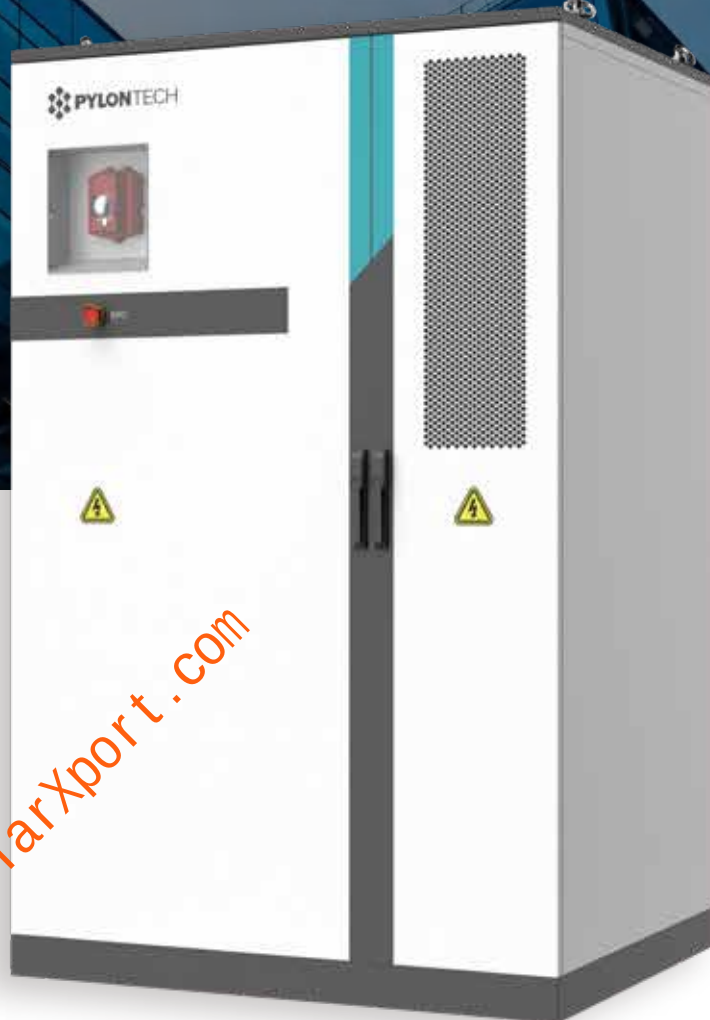


OPTIM US A100-OMNI

M1C-100kW/108kWh



108~648kWh



100~600kW



1C



400Vac

www.solarXport.com



All in One Solution



Wide Temp. Range



Flexible Configuration



High C rate



**Wide Temp
Range**



**Ancillary
Service**



**Electricity
Arbitrage**



**Demand
Response**



Backup

A100-OMNI

OPTIM US / A100-OMNI

General Data		M1C-100kW/108kWh
Dimension (W*D*H mm,w/o inverter)	1300*2485*1150	
Weight (tons)	2 (incl. battery)	
Working Temperature Range (°C)	-25~45*	
Protection Class	IP55	
Altitude (m)	≤2000	
Humidity	0~95%	
Fire extinguishing	Aerosol	
Cooling System	Air Cooling	
Cooling system consumption (kW,Cooling/Heating)	3 / 2	
Aux. Power Consumption (kW, continuous/peak, incl. HVAC)	2.5/4	
Max.parallel No.	5	
Anti-corrosion	C5 (Air Conditioner C4H)	
Certification	UN38.3/UN3481/IEC62619/IEC62040-1/CE/UKCA(EMC/RED)/ VDE2510-50/UL1973/UL9540A/UL9540 CE EMC/CE LVD/EN 50549-1: 2019/EN 50549-2: 2019/IEC 61000-6-2/IEC 62477-1	

Battery Data	
Battery Type	Li-ion (LFP)
Nominal Capacity (kWh)	108
Continuous Operation C-rate	1C
Depth of Discharge	98% (single string)
Cycle Life	>7000
DC Voltage Range (Vdc)	667~828 (single string)
Continuous Operation Current (A)	148
Round-trip Efficiency@ 0.5C-rate	95%

PCS DC/AC Data On-grid Mode	
Rated AC Power (kW)	100
Rated AC Output Voltage (Vac)	230/400
Rated AC Output Frequency (Hz)	50
Max AC Current (A)	145 (Linear Load)
Overload Capacity	120%@60sec
AC PF	1.0 (Lagging)~1.0 (Leading)
CEC Efficiency	97.3% (Peak 98.1%)
Isolation Type	Non-isolation

Operation Mode	
Communication Type	Modbus TCP/IP, Modbus RTU
Operation Logic	Wide Temp Range/Ancillary Service/Electricity Arbitrage/Demand Response/Backup

*Degradation at temperatures below 10°C or above 40°C

		System configuration						Min. configuration		
		Inverter Type	100kW							
		Inverter QTY	1	2	3	4	5		Optional configuration	
A100-OMNI	Cabinet QTY	kW	100	200	300	400	500			
	1	108								
	2	216								
	3	324								
	4	432								
	5	540								