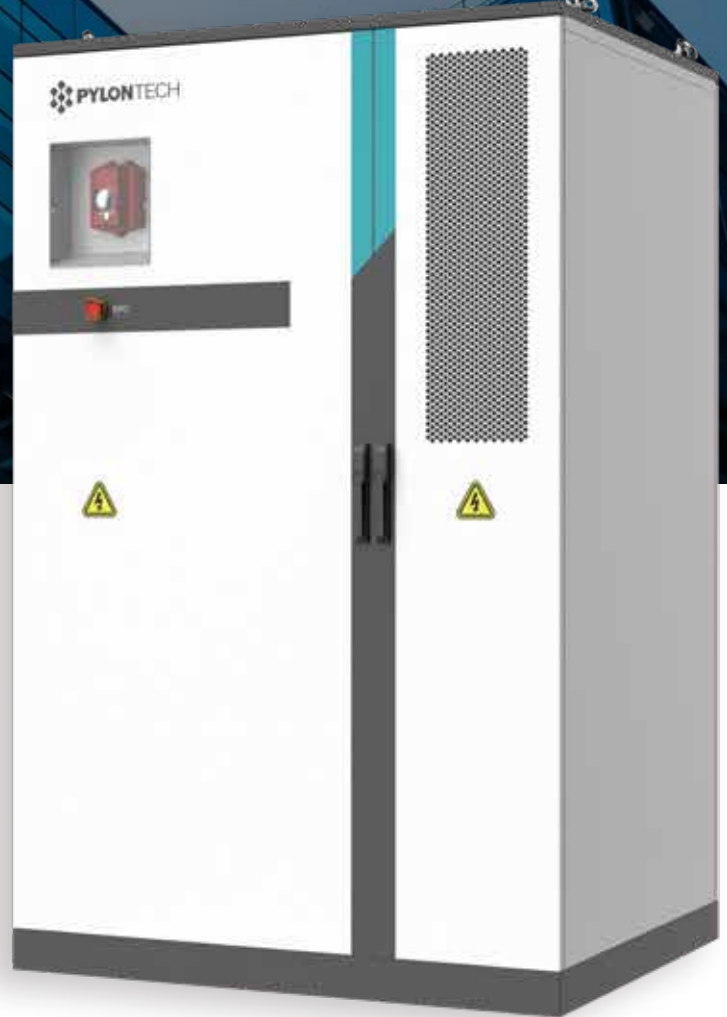


OPTIM US A100-OMNI

M1C-100kW/108kWh



108~648kWh



100~600kW



1C



400Vac



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

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

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