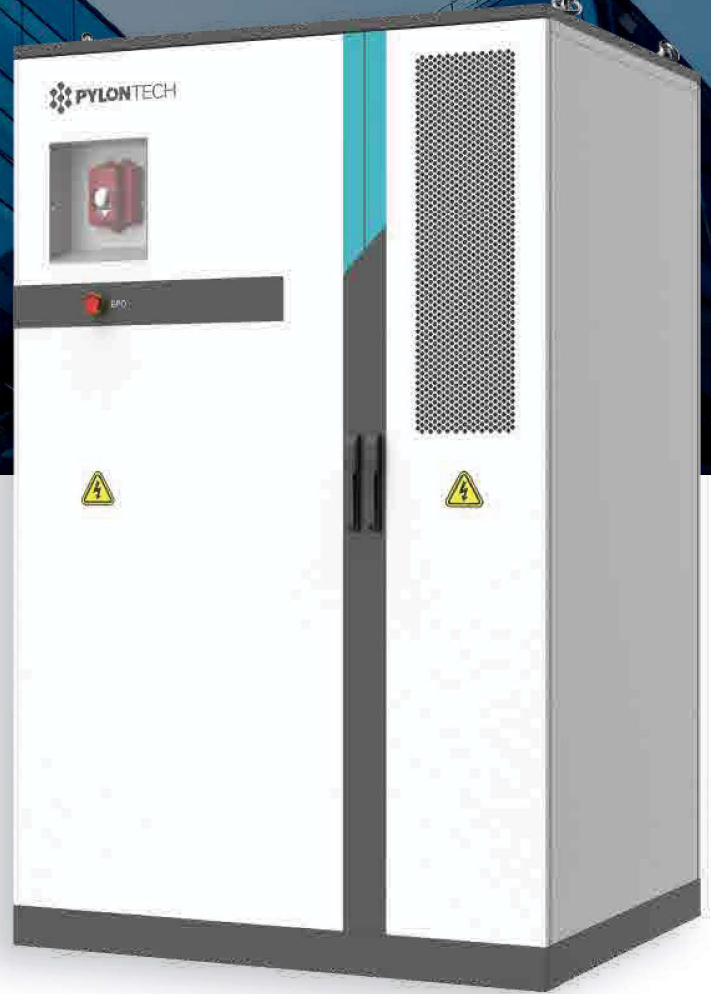


# OPTIM US A100-OMNI

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

General Data		M1C-100kW/108kWh
Dimension (W*D*H, mm)	1300*2485*1150	
Weight (tons)	2 (incl. battery)	
Working Temperature Range (°C)	-25~45*	
Protection Class	IP55	
Altitude (m)	≤2000	
Humidity (RH)	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@ 0.5C-rate	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						