



OPTIM US A100-HY-UL

M1C 30kW/95kWh
M1C 60kW/100kWh



47~199kWh



30/60kW



1C



208/480Vac



Hybrid Inverter Integrated



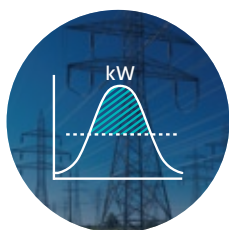
Superior Safety



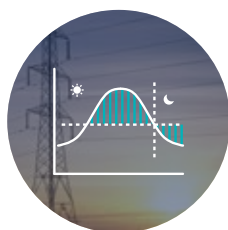
Flexible Configuration



Easy Set-up & Maintenance



Peak Shaving



Energy Shifting



Self-Consumption



Backup

A100-HY-UL

General Data	M1C 30kW/95kWh	M1C 60kW/100kWh
Dimension (W*D*H, w/o inverter)	59*86*44in (1500*2195*1125mm)	
Weight (incl. battery)	4189lb (1.9tons)	
Working Temperature Range	-68~122°F* (-20~50°C*)	
Protection Class	IP55	
Altitude	≤6561ft (2000m)	
Humidity (RH)	0~95%	
Fire Extinguishing	Aerosol	
Cooling System	Air Cooling	
Cooling System Consumption (kW, Cooling/Heating)	2 / 1	
Aux. Power Consumption (kW, continuous/peak, incl. HVAC)	1.5/ 3	
Max. Parallel No.	5	
Anti-Corrosion	C3 (C5 Optional)	
Certification	UN38.3/UN3481/IEC62619/IEC62040-1/CE/UKCA(EMC/RED)/VDE2510-50/UL1973/UL9540A/UL9540 G99, VDE-AR-N 4105 / EN 50549-1/EN 50549-10 / EIFS 2018.2/ IEC 62116/ IEC 61727/ IEC 60068/ IEC 61683/ EN 50530	
Battery Data		
Battery Type	Li-ion (LFP)	
Nominal Capacity (kWh)	95	100
Max. /Continuous Operation C-rate (C)	1/0.5	
Depth of Discharge	98% (single string)	
Cycle Life	>7000	
DC Voltage Range (Vdc)	609~756 (single string)	
Max. /Continuous Operation Current (A)	148/74	
Round-trip Efficiency@ 0.5C-rate	95%	
Hybrid Inverter Data		
Rated AC Power (kW)	30	60
Rated AC Output Voltage (Vac)	120/208	277/480
Rated AC Output Frequency (Hz)	50/60	
Max AC Current (A)	125@7s	144@7s
Overload Capacity	45kVA@7s	120kVA@7s
AC PF	+/- 0.8-1.0	
CEC Efficiency	96.5% (Max.97.5%)	
Isolation Type	Non-Isolation	
Response Time in ms (On-Grid to Off-Grid)	5	
Operation Mode		
Communication Type	Modbus TCP/IP/Modbus RTU/CAN	
Operation Logic	Peak Shaving/Energy Shifting/Self-Consumption/Backup	

*Derating at temperatures below 50°F(10°C) or above 104°F(40°C)

A100-HY-UL	System Configuration				Minimum configuration	Standard configuration
	Inverter QTY	1	1			
	Cabinet QTY	30	60			
	kW					
	1	47				
	1	66				
	1	95				
	1	99				
	2	104				
	2	132				
	2	190				
	2	198				

Customized Solution Available

