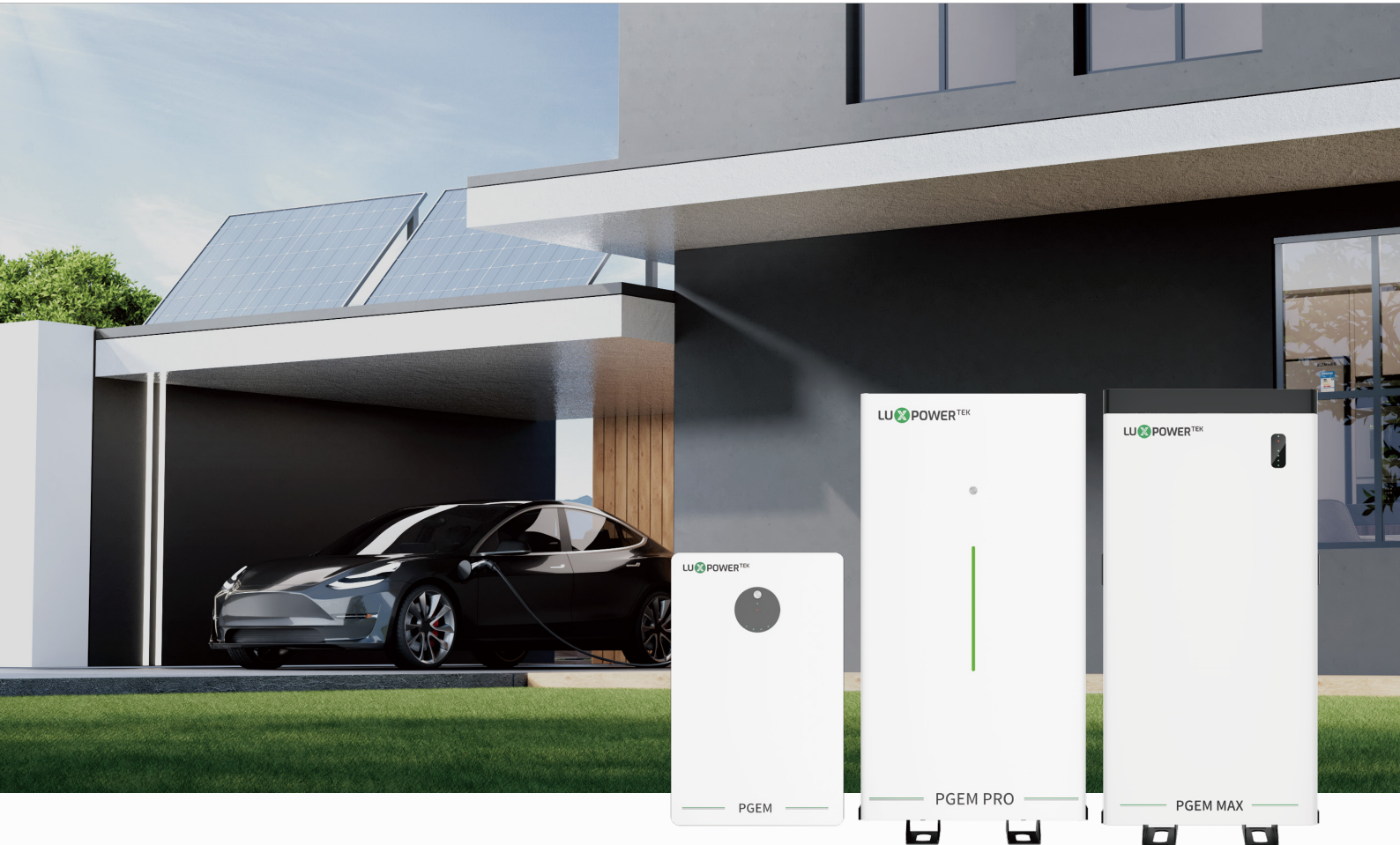


Battery Storage

PGEM/PGEM PRO/PGEM MAX (Low voltage)



Features



Ultra Safe LFP Material

Long-lifespan LiFePO₄ cells with over 8000 cycles.



High Efficiency Performance

Up to 200 A continuous discharge and 1C charge/discharge rate.



Smart BMS Management

Multi-level protection for overcharge, over-discharge, and short circuit.



Enhanced Fire Safety

Integrated fire protection with built-in suppression module.



Remote Upgrade & Active Balancing

Real-time monitoring, remote firmware updates, and low self-consumption.



Parallel Scalability

Supports up to 32-50 modules in parallel for flexible capacity expansion.



Wall-mounted Compact Design

Sleek and space-saving, ideal for residential energy storage.



Installer-Friendly Design

Stackable and multi-mount installation options (PGEM MAX only)

Model		PGEM	PGEM PRO	PGEM MAX
Electrical				
Rated Energy		5.12kWh	14.3kWh	16.076kWh
Rated Capacity		100Ah	280Ah	314Ah
Rated Voltage		51.2V	51.2V	51.2V
Charge/ Discharge Current	(Recommend)	50A	140A	160A
	(Max. Continuous)	100A	140A	160A / 200A
	(Peak 1)	105A (Peak1 15s)	160A (Peak1 15s) / 160A (Peak1 300s)	180A (Peak1 15s) / 210A (Peak1 120s)
	(Peak 2)	110A (Peak2 500ms) / 150A (Peak2 500ms)	180A (Peak2 500ms) / 200A (Peak2 500ms)	200A (Peak2 500ms) / 220A (Peak2 500ms)
Charge/Discharge Rate		1C	0.5C	

General			
Cell Type	LFP		
Parallel	Up to 50 units parallel w/o extra device needed, 256 units parallel with hub, slave battery drops offline or come back alive does not affect system running	Up to 32 units parallel w/o extra device needed, 256 units parallel with hub, slave battery drops offline or come back alive does not affect system running	Up to 50 units parallel w/o extra device needed, 256 units parallel with hub, slave battery drops offline or come back alive does not affect system running
Dimension (W × H × D)	390 × 620 × 170 mm 15.35 × 24.41 × 6.69 in	475 × 900× 237.5 mm 18.7 × 35.4 × 9.35 in	445 × 900 × 235 mm 17.5 × 35.4 × 9.25 in
Weight	51.45 kg / 113.43 lbs	120 kg / 264.55 lbs	113 kg / 249.12 lbs
IP Level	IP20		
Robust Applications	Auto-addressing and stronger protection		
Communication	CAN / RS485		
Humidity	5% ~ 85%RH (No condensation)		
Work Temperature	-20 ~ +55°C		
Storage Temperature	-10 ~ +35°C		
Remote Maintenance	Flexible remote monitor and maintenance, Original firmware backup to prevent upgrade failure	Flexible remote upgrade, Original firmware backup to prevent upgrade failure	Flexible remote monitor and maintenance, Original firmware backup to prevent upgrade failure
Warranty *	10 years, 6000 cycles	10 years, 8000 cycles	
Certification	CE; UN38.3; IEC62619		
Protection	Overcharge/discharge/current/voltage/temperature protection Short circuit protection, Reverse connection protection Stronger active balance, Low SOC protection		

*@25°C, 90% DOD. 0.5C testing condition