

Battery Storage

PGEM/PGEM 10

PGEM PRO/PGEM MAX (Low voltage)



Features



WiFi & Bluetooth

Easy local and remote configuration



10-Year Warranty

Reliable LiFePO₄ performance



Flexible Scalability

Up to 50 modules in parallel



Remote Monitoring

Real-time diagnostics and OTA updates



Smart BMS

Advanced multi-layer protection



Perfect Inverter Match

Seamless integration with LuxpowerTek inverters



1C Performance ^①

Fast charging and discharging



Built-in Fire Suppression

Rapid fire response for added protection

Model		PGEM	PGEM 10	PGEM PRO	PGEM MAX
Electrical					
Rated Energy		5.12kWh	10.496kWh	14.3kWh	16.076kWh
Rated Capacity		100Ah	205Ah	280Ah	314Ah
Rated Voltage		51.2V	51.2V	51.2V	51.2V
Charge/ Discharge Current	Recommend	50A	140A	140A	160A
	Max. Continuous	100A	140A	140A	160A/200A
	Peak 1	105A (15s)	TBD	160A (15s) / 160A (120s)	180A (15s) / 210A (120s)
	Peak 2	110A (500ms) / 150A (500ms)	TBD	180A (500ms) / 200A (500ms)	200A (500ms) / 220A (500ms)
Charge/Discharge Rate		1C	TBD	0.5C	
General					
Cell Type		LFP			
Parallel		Up to 50 units parallel without 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	390 × 645 × 230 mm 15.35 × 25.39 × 9.06 in	445 × 900× 237 mm 17.52 × 35.43 × 9.33 in	445 × 900 × 235 mm 17.52 × 35.43 × 9.25 in
Weight		51.45 kg / 113.43 lbs	80 kg / 176.37 lbs	111 kg / 244.71 lbs	113 kg / 249.12 lbs
IP Level		IP20			
Cycle Life		≥6000 Cycles		≥8000 Cycles	
Communication		CAN / RS485			
Robust Applications		Auto-addressing and stronger protection			
Wifi / Bluetooth		Built-in			
Fire Suppression		Built-in			
Humidity		5% ~ 85%RH (No condensation)			
Work Charge/DischargeTemperature		0 ~ +55°C / -20 ~ +55°C			
Storage Temperature		-10 ~ +35°C			
Remote Maintenance		Flexible remote upgrade, Original firmware backup to prevent upgrade failure		Flexible remote monitor and maintenance, Original firmware backup to prevent upgrade failure	
Warranty ②		10 years, 6000 cycles			
Certification		CE; UN38.3; IEC62619			
Protection		Overcharge/discharge/current/voltage/temperature protection Short circuit protection, Reverse connection protection, Low SOC protection Stronger active balance (PGEM), Charge balance (PGEM 10/PRO/MAX)			

①: Available on PGEM model

②: @25°C, 90% DOD. 0.5C testing condition