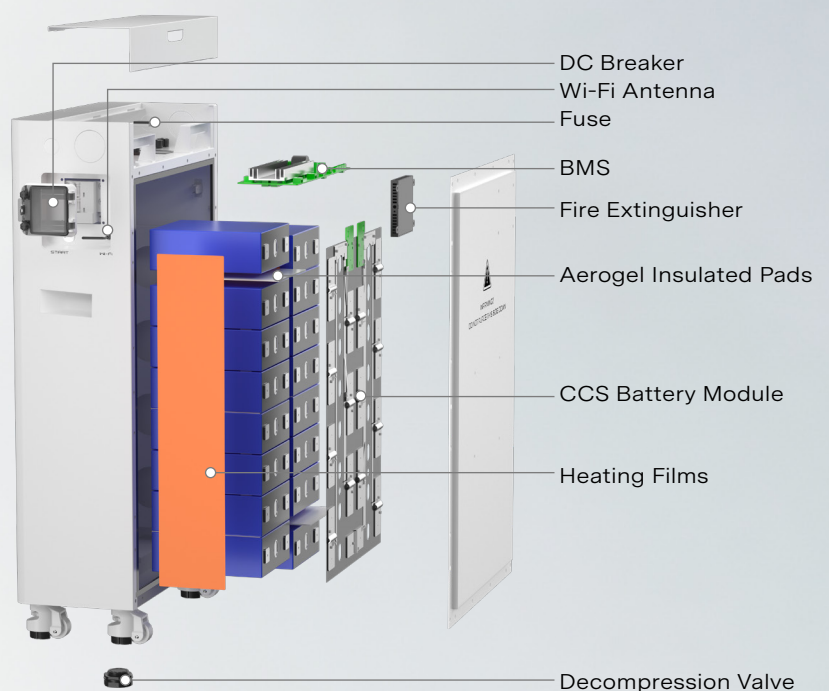


Power Lite Plus Series

AI-Powered Battery Safety Detection and Customer Service



- ✓ Tier-One LFP Battery Cells
- ✓ Advanced BMS Control
- ✓ Supports Charging Down to -20 °C / -4 °F
- ✓ Max. 64 Sets in Parallel
- ✓ Automatic Parallel Configuration
- ✓ IP65
- ✓ Easy Installation
- ✓ Blackout and Emergency Backup



Model	IG-16K-U	
Nominal Capacity	314 Ah	
Nominal Energy	16.0 kWh	
Usable Energy ^[1*]	16.0 kWh	
Nominal Voltage	51.2 V	
Working Voltage Range	43.2 V - 58.4 V	
Max. Parallel Quantity ^[2*]	Max. 64 Sets in Parallel, 1,024 kWh	
Rated / Charge / Discharge Current	160 A / 160 A	
Max. Charge Current	160 A	
Max. Discharge Current	200 A (SOC≥70%, cell temperature <40 °C / 104 °F)	
Max. Charge / Discharge Power	8.2 kW / 10.24 kW	
Peak Discharge Current / Power	250 A / 12.8 kW, 15 s	
Recommended Power	7.8 kW	
Standard Charge Method	CC at 0.5C to 57.6 V, then CV at 57.6 V until the current drops to 0.05C (25 ± 2 °C)	
Available SOC Range	10% to 100% (Adjustable)	
Transportation SOC Range	50% ± 5%	
Dimensions [W*D*H]	500 × 235 × 943 mm (±5) 19.7 × 9.3 × 37.1 in (±0.2)	
Weight	~125 kg / ~ 275.6 lbs	
Operating Temperature ^[3*]	Charge: -20 °C to 55 °C / -4 °F to 131 °F Discharge: -20 °C to 55 °C / -4 °F to 131 °F	
Cell Temperature Protection	Charge SPEC: <0 °C or >60 °C / <32 °F or >140 °F Charge Recovery: >5 °C or <50 °C / >41 °F or <122 °F	Discharge SPEC: <-20 °C or >60 °C / <-4 °F or >140 °F Discharge Recovery: >-15 °C or <50 °C / >5 °F or <122 °F
Storage Temperature	-20 °C to 55 °C / -4 °F to 131 °F	
Working Humidity	5% to 95% RH (non-Condensing)	
Altitude	≤ 9,842 feet (≤ 3,000 m)	
Communication	CAN, RS485, Dry Contact, Wi-Fi	
Certifications	IEC 62619, IEC 61000, CEC, UL 9540, UL 9540A, UL 1973, UN 38.3, FCC	
Designed Cycle Life ^[4*]	8,000 Cycles	
Warranty	10 Years	
IP Rating	IP65	
Cooling	Natural Cooling	
Heating Power	Optional	
Fire Extinguishing Device	Optional	

[1*] Test Conditions, 100% DoD, 0.2C charge and discharge at 25°C ± 3°C for battery system at beginning of life (BOL). System usable energy may vary with different inverters.

[2*] Recommended: ≤16 Parallel Connections, 256 kWh.

[3*] Without Heating Function: Charge : 0 °C to 55 °C / 32 °F to 131 °F, Discharge : -20 °C to 55 °C / -4 °F to 131 °F.

[4*] Recommended storage temperature: @ 0.5C, 90% DoD, 25 ± 2 °C, to 70% SOH.

※ Information is subject to change without notice.