felicitysolar®

125kW / 257kWh C&I Energy Storage System

IVGM125KHP3G1+ FLH-E257

Flexible DC-coupled energy storage for peak shaving, load shifting, solar utilization and backup power.



125kW Hybrid Power Platform
Supports grid-connected, off-grid, backup and generator-integrated applications.

Assembled 257 kWh Cabinet
Pre-assembled and delivered as a complete unit for simple inverter connection

Modular and Flexible Expansion
Expand through parallel connection or by adding battery cabinets to meet diverse application needs.
Scalable to 98.6 MWh.

Engineered for Outdoor Reliability
Multi-level protection, high ingress protection and corrosion resistance help support reliable outdoor operation.

IP55	250kW	Air Cooling	314Ah	12 Units
Cabinet Protection	Max. PV Input		Cell Capacity	Max. Parallel Operation

Guangzhou Felicity Solar Technology Co.,Ltd.

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(Only 10 Mins from Baiyun Airport)

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Official Website

Social Media

IVGM125KHP3G1 Hybrid Inverter

Battery Input Data	
Battery Type	LFP (LiFePO4)
Battery Voltage Range	160-950 Vdc
Max. Charging / Discharging Current	120 A+120 A / 120 A+120 A
Number of Battery Inputs	2
PV String Input Data	
Max. DC Input Power	250 kW
Max. DC Input Power per Tracker	25 kW
Max. DC Input Voltage	1000 Vdc
Start-up Voltage	180 Vdc
Rated DC Input Voltage	600 Vdc
MPPT Range	150-950 Vdc
Full Load DC Voltage Range	555-950 Vdc
PV Input Current	10 x 45 A
Max. PV Isc	10 x 68 A
No. of MPP Trackers	10
Strings per MPPT Tracker	2
AC Input / Output Data	
Rated AC Input / Output Power	125 kW
Max. AC Input / Output Power	137 kVA
AC Rated / Max. Current	181.2 A / 198.6 A
Max. Output Overcurrent Protection	270 A
Max. AC Bypass (grid to load)	270 A
Rated AC Voltage	220/380, 230/400 Vac
AC Wiring / Frequency	3L+N+PE / 50-60 Hz
THDI	<3% at rated power
Power Factor	0.8 leading to 0.8 lagging
Efficiency & General Data	
Max. / Euro / MPPT Efficiency	98.8% / 98.2% / 99.90%
Protection Degree	IP66
Operating Temperature	-40 to 60°C (>45°C derating)
Net / Gross Weight	151.6 kg / 208.5 kg
Product Dimension	1250 x 796 x 364 mm
Warranty	10 years

FLH-E257 Energy Storage Cabinet

Overall System Parameters	
Model	FLH-E257
System Rated Energy	257.22 kWh
Battery Nominal Voltage	819.2 V
Battery Operating Voltage	742.4-921.6 V
Humidity	5%-95% RH
Altitude	3000 m
Enclosure / Anti-corrosion	IP55 / C4 (C5 optional)
Dimension (W x D x H)	1350 x 1300 x 2400 mm (without inverter)
Approx. Weight	2780 kg (without inverter)
Heat Exchange / Installation	Smart air cooling / Floor-mounted
Warranty	10 years
Battery Technical Specifications	
Battery Chemistry / Cell Type	LiFePO4 / 314 Ah
Battery Module Energy	16.07 kWh
Number of Battery Modules	16
Module Nominal Voltage	51.2 V
Recommended Charge / Discharge	157 A
Max. Continuous Charge / Discharge [1]	240 A
Battery Communication	RS485 / CAN
Storage Temperature	0-35°C
Operating Temperature [2]	-20-55°C
Depth of Discharge	90%
Cycle Life	≥8,000 @25°C, 0.5P, EOL70%
Certification	UN38.3, CE, IEC62619, IEC63056, IEC62477

[1] Current is affected by temperature and SOC.

[2] Derated operation above 45°C.

INSTALLER REWARDS

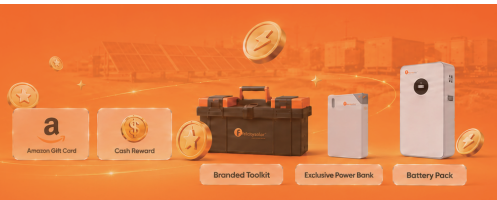
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Event Details