

# 8KVA

## Hybrid Solar Inverter

IVGM Series Low-voltage | Split Phase

### Features

- Configurable parameters and working mode by LCD touch screen.
- Supporting WiFi monitoring and Fsolar smart cloud monitoring system.
- Battery charge and discharge current up to 120A~190A.
- Prevent grid overload with built-in limit function while seamlessly switching between battery and grid supply within 10ms for uninterrupted power.
- IP65 protection level.
- Optimize energy use with Time-of-Use, Sell-First, and Zero Export options to maximize savings and efficiency.
- 4-channel PV, 2-channel MPPT, 1.5 times over configuration capacity.
- Programmable generator port, support smart load and micro inverter access.
- Support parallel operation with single-phase, and three-phase.
- Max. 6 units in parallel



**IVGM8KLP2G1**



Model	IVGM8KLP2G1
<b>Battery Input Data</b>	
Battery Voltage Range	40V~60V
Max. Charging and Discharging Current	190A/190A
Max. Charging and Discharging Power	8000W
Battery Type	Li-Ion /Lead-acid
<b>DC Input Data(PV side)</b>	
Max. Recommended PV Power	12000W
Max. PV Voltage	500V
Start Voltage	100V
PV Voltage Range	90V-500V
MPPT Voltage Range	120V-425V
MPPT Voltage Range for Full Load	230V-425V
Nominal Voltage	380V
Pv Input Current	26A+26A
Max. Shorted Current	44A+44A
Number of MPP Trackers / Strings Per MPP Tracker	2/2
<b>Grid Data</b>	
Nominal Input Voltage	120/240Va.c (Split Phase), 208Va.c (2/3 Phase)
Nominal Grid Frequency	50/60Hz
Max. AC Output Power	8800W
AC Output Rated Current	33.3A
Max. Output Current	36.7A
Max. Continuous AC Passthrough	50A
<b>AC Output Data(Back Up)</b>	
Rated Output Power	8000W
Max. Output Current	40A
Rated AC Output Voltage	120/240Va.c (Split Phase), 208Va.c (2/3 Phase)
Rated AC Output Frequency	50/60Hz
<b>Protection</b>	
Output Over Current Protection	Integrated
Output Over Power Protection	Integrated
Output Short-Circuit Protection	Integrated
Anti-islanding Protection	Integrated
GFCI Protection	Integrated
Arc Fault Circuit Interrupter(AFCI)	Integrated
Insulation Resistor Detection	Integrated
<b>General Data</b>	
Operating Temperature Range	-25°C~60°C, >45°C Derating
Protection Degree	IP65
Cooling Concept	Smart Cooling
Communication	RS232 / RS485
BMS Communication	CAN / RS485
Monitor Module	WiFi / GPRS
Display	LCD+LED
Installation Style	Wall-mounted
Warranty	10 Years
Grid Regulation(In progress)	VDE 4105、CEI 0-21、G99、NRS 097-2-1、EN 50549-1、EN 50549-10、NC RFG(Poland)、EN 50549-1/-10+Netherlands、PPDS、NTS & UNE217001 & UNE217002、UL1741
Safety Regulation	IEC 62109-1/-2
EMC	IEC/EN 61000-6-1/2/3/4、EN/IEC 61000-3-11/12
Net Weight(KG)	33.5KG
Gross Weight(KG)	40.5KG
Product Dimension(MM)	430*654*243MM
Package Dimension(MM)	787*547*358MM

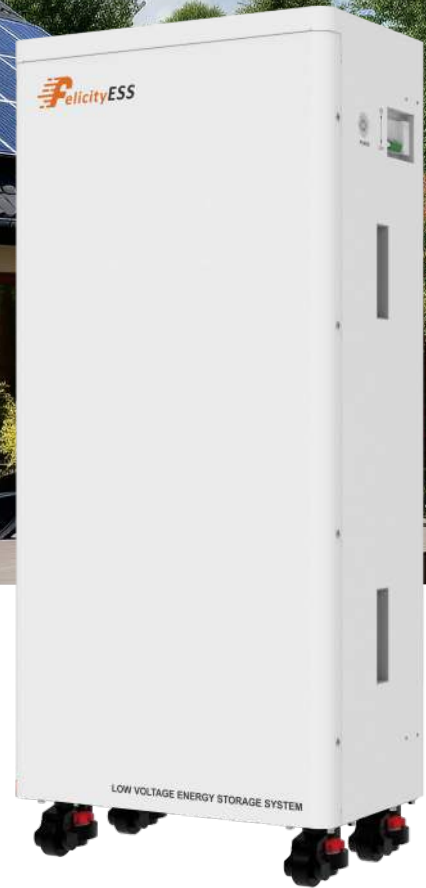
\*Refer to Felicitysolar's Warranty Policy for applicable conditions.













# LUX-Y Battery Pack

LUX-Y-48280/48300LG01



## Product Features

 <p>Higher safe performance and longer cycle life</p>	 <p>Multiple Protection: Built-in smart BMS, Breaker and Fuse</p>	 <p>Flexible Installation: Wall-Mounted or Floor-Mounted</p>	 <p>Aerosol Fire Extinguishing System</p>
 <p>Wide Compatibility: Compatible with leading inverter brands</p>	 <p>High Scalability</p>	 <p>Built-in WIFI: Remote monitor of the battery pack data</p>	 <p>Long Warranty: 10 Years</p>

# Specification

Model	LUX-Y-48280LG01	LUX-Y-48300LG01
Battery Type	LiFePO4	
Nominal Energy	14.3kWh	15kWh
Nominal Capacity	280Ah	300Ah
Nominal Voltage	51.2V	
Operating Voltage	44.8~57.6V	
Recommend Charge/Discharge Current	120A	
Max.continuous charge/Discharge current[1]	150A	
Peak Charge/Discharge Current(15s)	200A	
Scalability	Max.15(215kWh)	Max.15(225kWh)
Depth of Discharge(DOD)	≥95%	
Display type	LCD	
Protection Level	IP21	
Working Temperature Range	Charge: 0°C~ +55°C	
	Discharge:-20°C~ +55 °C	
Storage Temperature Range	0°C~ +35°C	
Humidity	5%-95%	
Altitude	≤2000m	
Communication	RS485 / CAN	
Cycle Life[2]	≥ 6000 Cycles	
Installation	Wall-Mounted / Floor-Mounted	
Protection	Built-in smart BMS, Breaker, Fuse	
Warranty Period[3]	10Years	
Product Weight Approximate	135kg	
Package Weight Approximate	160kg	
Product Dimension	480x1100x300mm	
Package Dimension	1150x635x498mm	

[1] Max.continuous charge/Discharge current is affected by temperature and SOC.

[2] Test conditions: 0.5C Charging/Discharging @25°C, 80% DOD, 60%EOL.

[3] Conditions apply, refer to FelicityESS Warranty Letter.