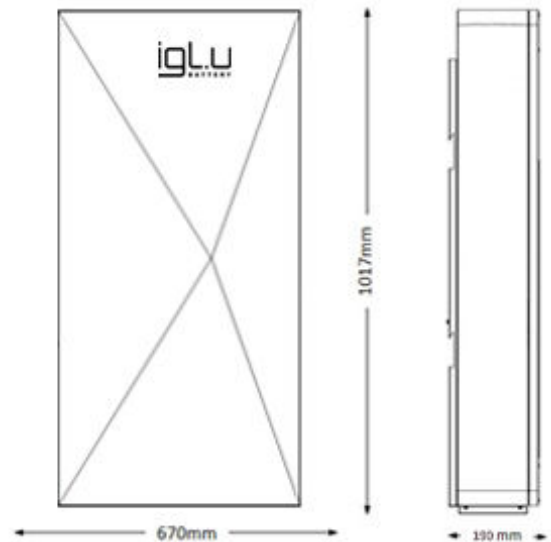


IGLU Battery LV 10kWh Lithium Battery Energy Storage



- **LiFePO4 (LFP) technology** – highest safety and cyclic performance compared with Li-ion (NMC) technology
- **CATL inside** – IGLU Battery storages build by CATL LFP cells from global leader
- **IP65 Compatible** – can be installed and used outside
- **Advanced BMS Control with active balancing** - the most efficient performance and longest lifetime
- **Black Out and Emergency Back-up** - stay energized even when the grid is down

Battery Enclosure	
Battery Type	LiFePO4 (LFP)
Number of Battery Units	2 sets of IGLU Battery modules (51.2V, 5.12kWh)
Nominal Battery Energy	10.24 kWh
Nominal Voltage	51.2 V
Working Voltage Range	44.8 – 57.6 V
Nominal Current (Recommended) ¹	100 A
Rated Power ¹	5,12 kW (Charge/Discharge)
Max Parallel Quantity	Max. 5 sets in parallel (50KWh)
General Data	
Dimension [W*D*H]	600*190*1040 mm
Mounting and Weight (Empty case)	Approx. 30 Kg, rear fixing
Mounting and Weight (with IGLU Battery modules)	Approx. 120 kg
Working Temp. Range	Charging: 0~55°C; Discharging: -20~55°C
Protection Level	IP65 (IP54 optional)
Recommended Indoor/Outdoor Usage	Indoor/Outdoor
Communication	CAN/RS485/RS232
Certificate (Battery and System)	IEC 62619, IEC 62040, UN38.3
Product warranty ²	5 Years
Performance warranty ²	10 Years
Cable Specification	
Battery Cable Rating	100 A, each cable
Battery Cable Type	25 mm ²

¹ Performance may be de-rating in extreme ambient environmental conditions

² Working Condition 0.5 C @ 25°C, 80% DoD, 1 cycle per day

IGLU BATTERY LV 5kWh Lithium Battery Module



Specifications of IGLU Battery module	
Cell Type	CATL LiFePO4 (LFP)
Rated Voltage (V)	51.2
Rated Capacity (Ah)	100
Rated Energy (kWh)	5.12
Usable Battery Capacity (Ah)	100
Usable Battery Energy (kWh)	5.12
Battery Depth of Discharge	100%
Battery Max Charge/Discharge Power (kW)	2.56
Connection	1P16S
Working Voltage Range (V)	44.8~57.6
Standard Charge Current (A)	50
Max. Continuous Charge Current (A)	50
Standard Discharge Current (A)	50
Peak Current	70A
Rated DC Power (kW)	2.56
The short circuit current	210A
Standard Charging Method	0.5C CC to 57.6V; CV at 57.6V till current is 0.05C
Working Temp. (°C)	Charging: 0 ~50; Discharging: -20~55
Working ROH	20%~80%
Storage Temp. (°C)	-20~50
Self-discharging rate	≤5% (25°C, 50% SoC) Per Month
SoC @ end of product line	50%
Insulation Resistance (MΩ)	>100
Voltage Difference in each module (mV)	≤20
Inner Resistance of single Cell (mΩ)	0.34±0.05 (fresh cell 30~40% SoC)
IP Rating	IP20
Recommended Indoor/Outdoor Usage	Indoor
Net Weight (kg)	Approx. 45
Dimension (mm)	440*530*132 (not include connector and other parts)