TECHNICAL DATA

IGLU Battery RESIDENTIAL ENERGY STORAGE

IGLU Kadlu 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** - 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	CATL LiFePO4 (LFP) 100Ah
Number of Battery Units	2 sets of IGLU Kadlu LV Packs (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)
Parallel Quantity	Max. 5 sets in parallel (50KWh)
General Data	
Dimension [W*D*H]	600*253*1176 mm
Mounting and Weight (Empty case)	Approx. 40 Kg, rear fixing
Mounting and Weight (with IGLU Kadlu LV	Approx. 130 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/Wi-Fi
Certificate (Battery and System)	IEC 62619, UN38.3
Product warranty[2]	5 Years
Performance warranty[2]	10 Years
Connector / Cable Specification	
Battery Connectors	Pheonix Contact 250 A, each pole
Battery Cable Rating	250 A, each cable
Battery Cable Type	50 mm2
Battery Enclosure	
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IGLU Kadlu LV Pack Specifications	
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
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
Dimensions (mm)	440*530*132 (not include connector and other

[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