

Isuna 10.24-100-HF-G3 Battery

Isuna residential storage system

- Max. 4 parallel operating in a system
- IP65(Suitable for outdoor scenes)
- Supports black-start: fast response
- 1C charging/discharging



Isuna 10.24-100-HF-G3 is a high-voltage integrated lithium battery system, storing renewable energy to boost self-consumption and provide grid-outage backup. With compact, edge-free, minimalist design, it supports flexible indoor/outdoor mounting, and suits high-power scenarios with limited space, restricted load-bearing and long cycle life needs. Its built-in BMS monitors cell voltage, current and temperature, and balances charge/discharge to extend cycle life; multiple modules can be parallel-connected to expand capacity and power for larger, longer-duration demands.



Safety and long lifespan, high efficiency and high-power density



Battery modules: auto networking/addressing, easy maintenance, space-saving free-stand; packs with blind insertion for simple installation/replacement.



Support high discharge power, inter-cell balancing. under-voltage automatic restart.



Whole module non-toxic, pollution-free.



Intelligent BMS, providing complete protection, setting up the heating film which supports low temperature heating.



Remotely monitoring and upgradable. Support snapshot function for fault analysis and historical data records.

Isuna 10.24-100-HF-G3

MODEL	Isuna 10.24-100-HF-G3-1	Isuna 10.24-100-HF-G3-2	Isuna 10.24-100-HF-G3-3	Isuna 10.24-100-HF-G3-4	Isuna 10.24-100-HF-G3-5	Isuna 10.24-100-HF-G3-6
Schematic Drawing						
						
Total Energy [kWh]	10.24	20.48	30.72	40.96	51.20	61.44
Battery Module	102.4V 10.24kWh					
Number of Modules	1	2	3	4	5	6
Cell Type	LFP (LiFePO ₄)					
Nominal Voltage [V]	102.4	204.8	307.2	409.6	512	614.4
Operating Voltage [V]	80 - 116.8	160 - 233.6	240 - 350.4	320 - 467.2	400 - 584	480 - 700.8
Max. Charge / Discharge Current [A]	100	100	100	100	100	100
Continue Discharge Output [kW]	10	20	30	40	50	60
Dimension [W*D*H]	1040*530*410	1040* 530 *610	1040*530 *810	1040*530*1010	1040*530*1210	1040*530*1410
Approximate Weight [KG]	136.1	237.8	339.5	441.2	542.9	644.6

General Specifications

Recommend Depth of Discharge	90%
LED Indicator	4 LED (SOC: 25%-SOC:100% blue), 2 LED (working green, alarming red)
IP Rating of Enclosure	IP65
Operating Temperature	Optional: Charge/Discharge: -20°C-50°C (with heating film) Charge: 0°C - 50°C / Discharge: -20°C-50°C (without heating film)
Storage Temperature	0°C - 35°C
Humidity	≤ 95%
Altitude	≤ 4000m
Cycle Life	10 + years, ≥ 6000 cycles (70 % EOL,80 % DOD,25 °C)
Installation	Floor Mount
Communication Port	CAN
Certification	

The current is affected by temperature and SOC.

Modules

High Voltage Battery Control Unit (BCU)		
Operating Voltage	80 - 700.8Vdc	
Max Charge / Discharge Current	100A	
Ingress Protection	IP65	
Operating Temperature	Optional: Charge/Discharge: -20°C-50°C(with heating film);Charge: 0°C - 50°C / Discharge: -20°C-50°C (without heating film)	
Storage Temperature	0 °C -35 °C	
Dimension (W*D*H)	1040*530*130mm	
Approximate Weight	22.4KG	
Battery Module		
Battery Type	LiFePO ₄ (LFP)	
Nominal Voltage	102.4Vdc	
Nominal Capacity	100Ah	
Nominal Energy	10.24KWh	
Max. Charge / Discharge Current	100A	
Operating Temperature	Optional: Charge/Discharge: -20°C-50°C(with heating film); Charge: 0°C - 50°C / Discharge: -20°C-50°C (without heating film)	
Storage Temperature	0 °C - 35 °C	
Ingress Protection	IP65	
Dimension (W*D*H)	1040*530*200mm	
Approximate Weight	101.7KG	
Base		
Dimension (W*D*H)	1040*530*80mm	
Approximate Weight	12KG	