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GENIXGREEN

Magic-02L-261 Energy Storage System

Magic-02L-261 Liquid-cooled Energy Storage System: Intelligent liquid cooling ensures safety and reliability. Modular design enables easy expansion, supports high-efficiency PV-storage matching, and allows flexible capacity scaling up to 2.6MWh.



Product Features:



High-level Safety Protection

Equipped with pressure monitoring, three-stage fire suppression, active discharge, and explosion-proof design, providing comprehensive safety coverage.



Intelligent Precision Temperature Control

Utilizes smart liquid cooling technology to achieve cluster-level precise temperature control, with system temperature variation below 3°C.



Extremely Simplified Maintenance

Fully modular design and pre-maintenance planning significantly reduce on-site operational complexity.



High Environmental Adaptability

The system features C4 corrosion resistance and IP65 protection for both PACK and PCS, making it suitable for various harsh indoor and outdoor environments.



High-efficiency PV-Storage Matching

PV-to-storage ratio reaches 0.7:1, significantly improving green energy charging efficiency.



Flexible Expansion Capability

A single unit supports 240kW, with up to 10 units connectable in parallel, allowing system expansion up to 2.6MWh.

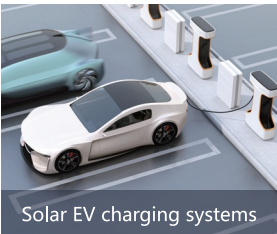
Product Specification



Model		Magic-02L-261	
Main Parameter			
Battery Type		LiFePO4	
Module Energy(kWh)		52.25	
Module Rated Voltage(V)		166.4	
Rated Capacity(Ah)		314	
No. Of System Module In Series		5	
System Rated Voltage(V)		832	
System Operating Voltage(V)	Charge Voltage	936	
	Discharge Voltage	728	
System Nominal Energy (kWh)		261.25	
System Dischargeable Energy (kWh)		250.8	
Charge/ Discharge Current(A)	Rated Current	157	
	Max. Current	188	
	Overload Current	200(3sec,25°C)	
Status Indicator Light		Blue: energy storage system start status, Green: energy storage system operation status, Red: energy storage system fault status	
Communication Protocol		CAN2.0	
Working Temperature Range (°C)		Charge: 0~ 50/Discharge: -10~ 55	
Working Humidity Range		≤95% (No condensation)	
Working Altitude		≤2000m	
System Cooling Method		Liquid Cooling	
Waterproof Rating		IP55	
Installation Place		Indoors/Outdoors	
Weigt(kg)		2650	
Dimension(W*D*H mm)		1070*1412*2180	
Storage Temperature(°C)		25~35	
Recommended Discharge Depth		90%	
System Composition		BMS, Fire Suppression System, Air Cooling Unit, Cabinet, PCS	
Cycle Life		≥10000 Cycles (25°C±2°C, 0.35C, 80%DOD@65%EOL)	
Certification		Cell:UL1973/IEC62619/UL9540A/TUV/CE/UN38.3/Full Container Load (FCL)	
Warranty		5 Years(Under Warranty Terms)	
Energy Throughput ^[1]		572MWh	

[1] Conditions apply, refer to GENIXGREEN Warranty Letter.

Application scenarios



Product Specification



Model ①	Magic-02L-PDU 1000VDC250A(LAN)
Working Voltage	250~1000Vdc
Rated Charging/Discharging Current	157A
Charging/Discharging Current Support	188A
Working Temperature Range	Charge:0~ 50°C/Discharge:-10 ~ 55°C
Waterproof Rating	IP55
Dimensions (W * D* H)	332*832*230mm
Weight	≈30kg
Parallel Operation	Not support

Model ②	Magic-01L-52S314A
Battery Type	LiFePO4(LFP)
Rated Voltage	166.4Vdc
Rated Capacity	314Ah
Rated Energy	52.25kWh
Rated Charging/Discharging Current	157A
Max. Charging/Discharging Current	188A
Working Temperature Range	Charge:0~ 50°C/Discharge:-10 ~ 55°C
Waterproof Rating	IP65
Dimensions (w * d* h)	790*1138*240mm
Weight	≈330kg

PS: This product is for EU market only. STS & MPPT not included in standard supply. Specify at order if required.



Magic-02L-261



Magic-02L-PDU 1000VDC250A(LAN)



Magic-01L-52S314A



EPCS125-AM (PCS)



G720 (EMS)

Product Specification



Model ③	EPCS125-AM (PCS)
DC Side	
Operating Voltage Range (V)	615~950/650~950
Max. Current (A)	203
AC Side (Grid-Tied)	
Rated Voltage (V)	400
Rated Voltage Range	±15%
Rated Frequency (Hz)	50/60
Connection Type	3P3W/3P4W
Maintenance Method	Front Connection
Rated Power (kW)	125
Max. Power (kW)	138
Max. Current (A)	200
Power Factor	0.99/-1~1
THDi	<2% (Rated Power)
DC Component	<0.5%
Overload Capacity	110% Long-term
Max. Efficiency	99%
General Specifications	
Inner Dimension (W*H*D, mm)	520*232*785
Weight (kg)	72
Altitude (m)	4000m (>2000m Derated Operation)
Operating Temperature	-30°C~60°C (>45°C Derated Operation)
Humidity	5%RH~95%RH, Non-condensing
Cooling Method	Smart Air Cooling
Protection Degree	IP20
Communication Method	CAN / RS485 / Ethernet
Certification	CE-LVD/EN 50549-1 /EN 50549-2

Product Specification



Model ④	G720 (EMS)
Main Specifications	
Operating Temperature	-25~+70°C
Operating Humidity	5%~95%
Operating Voltage	DC 9~36V (Typical 24V)
Rated Power	≤10W
Processor	64-bit Arm Processor / Dual-core Cortex-A35 + Cortex-M4 Safety Core
Memory (RAM)	DDR3 512MB
Storage	eMMC 4GB
Watchdog	Onboard Independent Hardware Watchdog
Local Communication Functions	
Ethernet	2 Ports; 100 Mbps
USB	1 Port; Host
CAN	4 Ports; Isolated CAN Communication
RS485	6 Ports; Isolated RS485 Communication
IsoSPI	2 Ports; Isolated Daisy-Chain Communication
Wireless Communication Functions	
4G	1 Port; China (Mainland), Global 4G Optional
Bluetooth	1 Port; Bluetooth 4.0
SIM Card	1 Port; Nano SIM (12.3mm×8.8mm), Eject Pin Required for Slot
Signal Acquisition Functions	
ADC Analog Input Detection	2 Ports; 0~20mA, 0~15V, Accuracy ≤1.5%, Sampling Rate ≥200SPS
NTC Temperature Detection	4 Ports; ±1 ℃ (-25~65 ℃), ±2 ℃ for other ranges
HDI Detection	6 Ports; Opto-isolated, High-Level Detection (Active Signal)
LDI Detection	4 Ports; Opto-isolated, Low-Level Detection (Passive Signal)
SWDI Detection	6 Ports; Opto-isolated, Dry Contact Detection (Passive Signal)
Control Output Functions	
SWDO	8 Ports; 4×Mechanical Relays, 2×Solid State Relays (SSR), 2×Opto-coupled Transistors
HDO	4 Ports; High-Side Output
LDO	4 Ports; Low-Side Output
ADDR	1 Port; Address Output (Default Low-Level)
LED Indicator	4 Ports; 4G Status Indicator, Power Status Indicator, 2×Programmable Indicators