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GENIXGREEN®

G-CUBE-01W-241+125kW

Energy Storage System



Ultra-Large Capacity (241kWh): Meets higher energy storage demands, reduces the number of devices required, and is suitable for large-scale applications.

Outdoor Protection (IP65): Waterproof and dustproof, adaptable to various outdoor environments.

Integrated Design: Combines battery modules, BMS, temperature control, and more, enabling easy installation and space-saving.

Product Features:



OTA Remote upgrade,
simple maintenance



Compact design to meet the needs of various
scenarios, easy to transport and install



Easy connection for WiFi remotely
monitoring system anytime and anywhere



Adopt advanced BMS algorithms and use Cloud
to achieve BMS 2A full-time balancing which can
ensure battery product SOC calculation is more accurate



BMS uses Cloud to achieve remote real time
balance and increases the battery pack cycles
performance so that the battery can be
guaranteed for more than 10 years



When more than 2 clusters are connected in
parallel, there is no need an extra Combiner BOX.
Direct connection reduces installation costs
and equipment costs

G-CUBE-01W-241+125kW



Product Model		G-CUBE-01W-241+125kW
Main Parameter		
Battery Type		LiFePO4
Module Nominal Voltage (V)		51.2
Rated Capacity(Ah)		314
No. Of System Module In Series		15
System Rated Voltage (V)		768
System Operating Voltage (V)		672~864
System Nominal Energy (kWh)		241.15
System Dischargeable Energy (kWh)		231.5
Charge/ Discharge Current(A)	Rated Current	157
	Max. Current	165
	Overload Current	170(10sec,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)		Charging 0~50°C Discharging -10~ 55°C
Working Humidity Range		≤95% (No condensation)
Working Altitude		≤4000m
System Cooling Method		Fan cooling
Waterproof Rating		IP65
Fire Suppression System		Aerosol
Weigt(kg)		≈2495
Max. Dimension(mm)		1174*1480*2460
Storage Temperature(°C)		0~35
Recommended Discharge Depth		90%
Cycle Life		≥10000 Cycles (25°C±2°C, 0.35C, 80%DOD@65%EOL)
System Composition		BMS, Fire Suppression System, Air Cooling Unit, Cabinet
Certification		Cell: UL1973/CE/ROHS/MSDS/UN38.3/Full Container Load (FCL)
Warranty		5 Years(Under Warranty Terms)
Energy Throughput ^[1]		528MWh

[1] Conditions apply, refer to GENIXGREEN warranty letter.

G-CUBE-01W-241+125kW



PDU	HV-PDU 1000VDC250A
Operating Voltage	250~1000Vdc
Rated Charge/Discharge Current	157A
Max. Charge/Discharge Current	165A
Operating Temperature Range	Charging 0~50°C Discharging -10~ 55°C
Waterproof Rating	IP20
Weight	≈29kg
Dimension(Wide*Depth*High)	420*807*238mm
Parallel Operation	Support

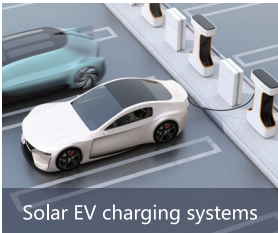


Module	HV-Tower-16S314A-Active Balancing
Battery Type	LiFePO4(LFP)
Rated Voltage	51.2Vdc
Rated Capacity	314Ah
Rated Energy	16.08kWh
Rated Charge/Discharge Current	157A
Max. Charge/Discharge Current	165A
Operating Temperature Range	Charging 0~50°C / Discharging -10~ 55°C
Balancing function (optional)	Active – voltage difference
Balancing current	2A
Waterproof Rating	IP20
Weight	≈118kg
Dimensions (W × D × H)	420*795*238mm



PS:This energy storage product is designed for indoor/outdoor use and supports parallel connection (It can connect to up to 4 battery clusters and supports optional installation of the newly added Active Balancing function, which further enhances the stability of the battery packs.) Parallel operation requires industrial air conditioners that match the PCS and battery output power for proper heat dissipation. Parallel connection is strictly prohibited without suitable cooling systems. (It must also be used with dedicated BMS control software, and the cooling capacity must meet system output requirements. Please contact our technical team for confirmation and guidance before any upgrade or parallel operation. Unauthorized paralleling is strictly forbidden and may cause serious safety risks.) The system is shipped by default without parallel functionality. <When operating in 2~4 cluster parallel mode, maintaining 0.5C charge/discharge current is only permitted if cooling conditions meet the design requirements. Any parallel operation involving more than 4 clusters is considered a special condition and must be handled under direct guidance from our technical engineers. Unauthorized operation is strictly prohibited.>

Application scenarios



Product Specification



Product Model	S6-EH3P125K10-NV-YD-H(Optional)
Input DC (PV Side)	
Recommended Max. PV Array size	250kW
Max. Usable PV Input Power	250kW
Max. Input Voltage	1000V
Rated Voltage	600V
Start-up Voltage	180V
MPPT Voltage Range	150~950V
Max. Input Current	10*42A
Max. Short-circuit Current	10*60A
MPPT Number / Max. Input Strings Number	10/20
Battery	
Battery Type	Lithium Battery
Battery Voltage Range	300~950V
Max. Charge/discharge Current	200A/100A+100A
Number of Battery Ports	2
Max. Charge/discharge Current of Each Port	100A
Communication Protocol	CAN/RS485
Outout AC (Grid side)	
Rated Output Power	125kW
Max. Apparent Output Power	125kVA
Rated Grid Voltage	3/N/PE, 220V/380V, 230V/400V
Rated Grid Frequency	50Hz/60Hz
Rated Grid Output Current	189.9A/180.4A
Power Factor	> 0.99 (0.8 leading ... 0.8 lagging)
THDi	< 3%
Input AC (Grid side)	
Max. Input Current	250A

Product Model	S6-EH3P125K10-NV-YD-H(Optional)
Output AC (Back-up)	
Rated Output Power	125kW
Max. Apparent Output Power	120% Rated Power: 100s; 140% Rated Power: 10s; 160% Rated Power: 200ms
Back-up Switch Time	< 10ms
Rated Output Voltage	3/N/PE, 220V/380V, 230V/400V
Rated Frequency	50Hz/60Hz
THDv (@linear load)	< 2%
Input AC (Generator)	
Max.Input Power	125kW
Rated Input Current	189.9A/180.4A
Rated Input Voltage	3/N/PE, 220V/380V, 3/N/PE, 230V/400V
Rated Input Frequency	50Hz/60Hz

Product Specification



Product Model	S6-EH3P125K10-NV-YD-H (Optional)
Efficiency	
Max. Efficiency	97.6%
EU Efficiency	97.2%
BAT Charged/discharged to Max. Efficiency	97.0%
Protection	
Anti-islanding Protection	Equipped
Output Over Current Protection	Equipped
Short-circuit protection	Equipped
Integrated DC switch	Equipped
DC reverse-polarity protection	Equipped
Surge Protection	DC Level 2 / AC Level 2
DC Arc Fault Protection	Optional (Brazil: Equipped)
Protection Grade/ Over Voltage Category	Level 1 / DC Level 2, AC Level 3

Product Model	S6-EH3P125K10-NV-YD-H (Optional)
General Data	
Max. Allowable Phase Unbalance (Grid & Back-up)	100%
Max. Power Per Phase (Grid & Back-up)	41.66kW
Dimensions (W*H*D)	1174*814*400mm
Weight	170kg
Topology	Transformerless
Operating Ambient Temp. / Humidity	-25~+60°C/0~100%
Protection Grade	IP66
Cooling Method	Smart Air Cooling
Max. Operating Altitude	3000m
Grid Connection Standard	G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1&2/EN 50549-10, VDE 0126/UTE C 15/VFR:2019, NTS 631/RD 1699/RD 244/ UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA,PORTARIA Nº 140, DE 21 DE MARÇO DE 2022; Brazil(75K: ORDINANCE (PORTARIA) NO.140, ORDINANCE NO. 515; 100K/125K: NBR 16149, NBR 16150, IEC 62116)
Safety/EMC Standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011
Features	
PV Connection	MC4 Quick Connection Plug
Battery Connection	Terminal Connector
AC Connection	Terminal Block
Display	7'' LCD Display & Bluetooth + APP
Communication Interface	CAN / RS485-115200 / Ethernet / Wi-Fi (Optional) / Cellular (Optional) / LAN (Optional)