



Tower-HV (GT) High-Voltage Energy Storage Solution

- Engineered for MWH-Scale and Above Projects
- Expand While Operating,Add Power Without Downtime



Tower-X-HV- 768V314Ah(GT)

Tower-HV-1331V314Ah(GT)

6 Core Advantages



Higher Voltage Platforms

768V & 1331V options
for flexible PCS & grid integration



Strong Anti-Interference Design

Dedicated circuits ensure stable
communication in parallel clusters



Container Ready

High energy density, compatible
with 20FT/40FT container integration



Smart 3-Level BMS

Active balancing standard, 1% precision
monitoring, longer lifespan



Professional Scalability

Supports mixing old & new modules, online
expansion without downtime, flexible investment



Full-Stack Safety

Cluster-level active safety strategy,
dedicated combiner cabinet for peace of mind

PDU

HV-PDU 1500VDC250A

Operating Voltage	250~1500Vdc
Rated Charge/Discharge Current	157A
Max. Charge/Discharge Current	165A
Operating Temperature Range	-10°C~55°C
Waterproof Rating	IP20
Dimensions (W × D × H)	420*807*238mm
Weight	≈29kg
Parallel Connection	Support



Module

HV-Tower-16S314A

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	-10°C~55°C
Waterproof Rating	IP20
Dimensions (W × D × H)	420*795*238mm
Weight	≈118kg



Product Specification



Model		Tower-X-HV- 768V314Ah(GT)									
Main parameter											
Battery Type		LiFePO4									
Module Nominal Energy(kWh)		16.08									
Module Nominal Voltage (V)		51.2									
Rated Capacity(Ah)		314									
No. Of System Module Series Connections (Optional)		6	7	8	9	10	11	12	13	14	15
Rated Voltage Of the System(V)		307.2	358.4	409.6	460.8	512	563.2	614.4	665.6	716.8	768
System Working Voltage(V)		268.8 345.6	313.6 403.2	358.4 460.8	403.2 518.4	448 576	492.8 633.6	537.6 691.2	582.4 748.8	627.2 806.4	672 864
System Nominal Energy(kWh)		96.46	112.54	128.62	144.69	160.77	176.84	192.92	209	225.08	241.15
Discharge Energy Of The System (kWh)		92.6	108.04	123.48	138.9	154.34	169.77	185.20	200.64	216.08	231.5
Charge/ Discharge Current(A)	Rated Current	157									
	Max. Current	165									
	Overload Current	170(10sec,25°C)									
Status Indicator Light		Blue: Battery system start status, green: Battery system operation status, Red:Battery system fault status									
Active Balancing		Optional									
Communication Protocol		CAN2.0									
Operating Temperature Range (°C)		-10 ~ 55									
Operating Humidity Range		≤95% (No condensation)									
Operating Altitude		≤2000m									
System Cooling Method		Fan cooling									
Waterproof Rating		IP20									
Installation Place		Indoors									
Net Weight (kg)		≈898~2048									
Dimensions(mm)		1050*831*2070									
Storage Temperature(°C)		0~35									
Recommended Depth of Discharge (DOD)		90%									
Cycle Life		≥10000 Cycles (25°C±2°C, 0.35C, 80%DOD@65%EOL)									
Certification		Cell : UL1973/UL9540A/TUV/CE/MSDS/UN38.3									
Warranty		5 Years(Under Warranty Terms)									
Energy Throughput ^[1]		211MWh	246MWh	281MWh	317MWh	352MWh	387MWh	422MWh	458MWh	493MWh	528MWh

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

PS: This energy storage product is designed for indoor 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.>

Product Specification



Model		Tower-HV-1331V314Ah(GT)	
Main parameter			
Battery Type		LiFePO4	
Module Nominal Energy(kWh)		16.08	
Module Nominal Voltage (V)		51.2	
Rated Capacity(Ah)		314	
No. Of System Module Series Connections (Optional)		26	
Rated Voltage Of the System(V)		1331.2	
System Working Voltage(V)		1164.8~1497.6	
System Nominal Energy(kWh)		418	
Discharge Energy Of The System (kWh)		401.27	
Charge/ Discharge Current(A)	Rated Current	157	
	Max. Current	165	
	Overload Current	170(10sec,25°C)	
Status Indicator Light		Blue: Battery system start status, green: Battery system operation status, Red:Battery system fault status	
Active Balancing		Optional	
Communication Protocol		CAN2.0	
Operating Temperature Range (°C)		-10 ~ 55	
Operating Humidity Range		≤95% (No condensation)	
Operating Altitude		≤2000m	
System Cooling Method		Fan cooling	
Waterproof Rating		IP20	
Installation Place		Indoors	
Net Weight (kg)		≈3317	
Dimensions (mm)		1500*822*2360	
Storage Temperature(°C)		0~35	
Recommended Depth of Discharge (DOD)		90%	
Cycle Life		≥10000 Cycles (25°C±2°C, 0.35C, 80%DOD@65%EOL)	
Certification		Cell: UL1973/IEC62619/UL9540A/TUV/CE/MSDS/UN38.3	
Warranty		5 Years(Under Warranty Terms)	
Energy Throughput ^[1]		915MWh	

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

Solutions & Case Studies

GENIXGREEN – Making Large-Scale Energy Storage More Reliable, Intelligent & Efficient

• Why Choose Tower-HV(GT)?



Higher Returns

High voltage, high efficiency, reduces system cost & losses



More Intelligent

3-Level BMS + Active Balancing, enhances system availability & lifespan



More Reliable

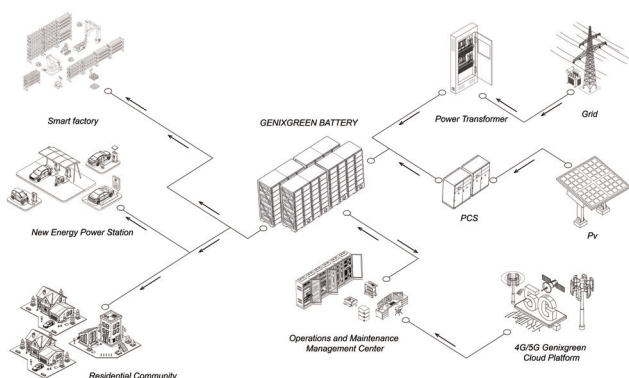
Anti-Interference Design + Professional Cooling Solution, ensures long-term stable operation



More Flexible

From single cluster to 16 clusters, from 768V to 1331V, free configuration, on-demand expansion

• Solution Diagram



Typical Project Configuration

Tower-X-HV-768V314Ah(GT)

1-3MWh Projects

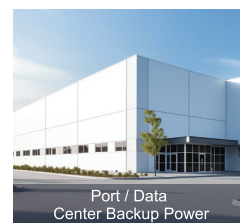
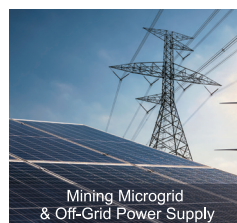
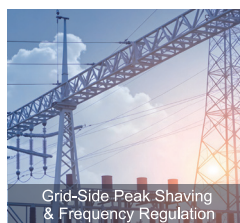
- Combiner cabinet required, 1000VDC high-voltage system
- Multi-cluster parallel, container pre-integration

Tower-HV-1331V314Ah(GT)

3-20MWh+ Large Projects

- 1500V high-voltage platform, dedicated combiner cabinet
- Grid-side storage, wind-solar-storage bases, integrated booster containers

• Application Scenarios



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