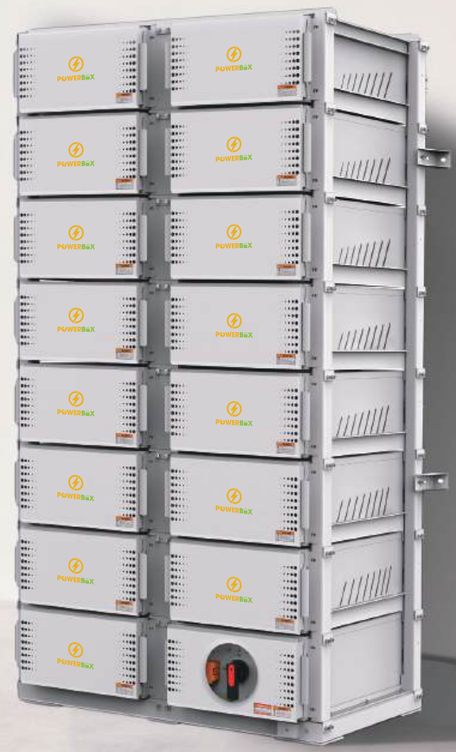
POWERBOX

TECHNOLOGY LUSTER LIFE

Tower-X-HV-768V 314Ah High Voltage

Battery Rack Solution



Product introduction

The Tower-X-HV-768V 314Ah high-voltage energy storage rack is based on a modular design concept and consists of energy storage units, control units, heat dissipation modules, and fire suppression modules. It has the characteristics of high energy density, long life cycle, low self discharge rate, and environmental sustainability, make lithium battery energy storage rack products widely used in various energy storage.

Product Features

- Safe and reliable Longer cycle life
- Flexible stacking installation
- Built in fan accelerates heat dissipation
- Smart BMS big power
- Exquisite craftsmanship Higher specific energy, more environmentally friendly
- Integrated design Convenient installation and higher efficiency
- Full Bracket Design Full space for each cell's best performance

241kWh Tower-X-HV-768V 314Ah High Voltage
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Main Parameters

Model		Tower-X-HV- 768V314Ah									
Main parameter											
Battery Type		LiFePO4									
Module Nominal Energy(kWh)		16.0768									
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									
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/IEC62619/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 our company warranty letter.

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Application scenarios


Solar EV charging systems


High powered industry


Residential complexes


Commercial centers

PDU	HV-PDU 1000VDC200A
Operating Voltage	250~1000Vdc
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 power	16.08kW
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

PS: This energy storage product is designed for indoor use and supports parallel connection (up to 4 battery clusters). 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.>