

# GENIX ENERGY GREEN LIVING



## Tower-HV-Series

### Energy Storage Rack System



#### Tower-X-HV-614V100Ah:

A scalable energy storage solution for commercial and industrial applications, delivering high-efficiency power management through modular design and intelligent control.



Compact and lightweight  
for easy installation



Modular design,  
30.72–61.44 kWh capacity



Safe and reliable  
Longer cycle life



Flexible stacking  
installation



Built in fan accelerates  
heat dissipation



Smart BMS  
high power

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Parameters

| Product Model | Tower-HV-<br>307V100Ah(6S) | Tower-HV-<br>358V100Ah(7S) | Tower-HV-<br>409V100Ah(8S) | Tower-HV-<br>460V100Ah(9S) | Tower-HV-<br>512V100Ah(10S) | Tower-HV-<br>563V100Ah(11S) | Tower-HV-<br>614V100Ah(12S) |
|---------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
|---------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|

|                                  |                  |                                                                                                           |       |       |        |        |        |        |
|----------------------------------|------------------|-----------------------------------------------------------------------------------------------------------|-------|-------|--------|--------|--------|--------|
| Main Parameter                   |                  |                                                                                                           |       |       |        |        |        |        |
| Battery Type                     |                  | LiFePO4                                                                                                   |       |       |        |        |        |        |
| Model Power(kWh)                 |                  | 5.12                                                                                                      |       |       |        |        |        |        |
| Module Nominal Voltage(V)        |                  | 51.2                                                                                                      |       |       |        |        |        |        |
| Rated Energy(Ah)                 |                  | 100                                                                                                       |       |       |        |        |        |        |
| Battery Module QTY               |                  | 6                                                                                                         | 7     | 8     | 9      | 10     | 11     | 12     |
| System Rated Voltage(V)          |                  | 307.2                                                                                                     | 358.4 | 409.6 | 460.8  | 512    | 563.2  | 614.4  |
| System Operating Voltage (V)     |                  | 268.8                                                                                                     | 313.6 | 358.4 | 403.2  | 448    | 492.8  | 537.6  |
|                                  |                  | ~                                                                                                         | ~     | ~     | ~      | ~      | ~      | ~      |
|                                  |                  | 345.6                                                                                                     | 403.2 | 460.8 | 518.4  | 576    | 633.6  | 691.2  |
| System Nominal Power (kWh)       |                  | 30.72                                                                                                     | 35.84 | 40.96 | 46.08  | 51.2   | 56.32  | 61.44  |
| System Discharge Power (kWh)     |                  | 29.49                                                                                                     | 34.41 | 39.32 | 44.23  | 49.15  | 54.06  | 58.98  |
| Charging/                        | Rated Current    | 50                                                                                                        |       |       |        |        |        |        |
| Discharging                      | Max. Current     | 100                                                                                                       |       |       |        |        |        |        |
| Current (A)                      | Overload Current | 125(10sec,25°C)                                                                                           |       |       |        |        |        |        |
| Status Indicator Light           |                  | Blue: battery system start status, green: battery system running status, red: battery system fault status |       |       |        |        |        |        |
| Communication Protocol           |                  | CAN2.0                                                                                                    |       |       |        |        |        |        |
| Working Temperature Range (°C)   |                  | -10 ~ 55                                                                                                  |       |       |        |        |        |        |
| Working Humidity Range           |                  | ≤95%(No condensation)                                                                                     |       |       |        |        |        |        |
| Working Altitude                 |                  | ≤2000m                                                                                                    |       |       |        |        |        |        |
| System Cooling Method            |                  | Natural cooling                                                                                           |       |       |        |        |        |        |
| Protection Grade                 |                  | IP20                                                                                                      |       |       |        |        |        |        |
| Installation Location            |                  | Indoor                                                                                                    |       |       |        |        |        |        |
| Net Weight(kg)                   |                  | 364                                                                                                       | 408   | 452   | 496    | 540    | 584    | 628    |
| Dimension(mm)                    |                  | 560*629*2158                                                                                              |       |       |        |        |        |        |
| Storage Temperature(°C)          |                  | 0~35                                                                                                      |       |       |        |        |        |        |
| Recommended Discharge Depth      |                  | 90%                                                                                                       |       |       |        |        |        |        |
| Cycle Life*                      |                  | ≥8000 Cycles (25°C±2°C, 0.5C, 80%DOD@65%EOL)                                                              |       |       |        |        |        |        |
| Certification                    |                  | CE/MSDS/UN38.3                                                                                            |       |       |        |        |        |        |
| Warranty                         |                  | 5 Years(Under Warranty Terms)                                                                             |       |       |        |        |        |        |
| Energy Throughput <sup>(1)</sup> |                  | 67MWh                                                                                                     | 78MWh | 89MWh | 100MWh | 112MWh | 123MWh | 134MWh |

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

Product Model

HV-PDU 750VDC100A

|                                      |                             |
|--------------------------------------|-----------------------------|
| Working Voltage                      | 250~750Vdc                  |
| Rated Charging/Discharging Current   | 50A                         |
| Max. Charging/Discharging Current    | 100A                        |
| Operating Temperature Range          | -10~55°C                    |
| Waterproof Rating                    | IP20                        |
| Dimension(W*D*H)                     | 440*570*150mm               |
| Weight                               | ≈16kg                       |
| Parallel Operation                   | Support                     |
| HV-PDU Control Box Cable Accessories |                             |
| ①                                    | Communication Network Cable |
| ②                                    | Bat+Connection Power Cable  |
| ③                                    | Bat Connect Power Cable     |



Product Model

HV-Tower-16S100

|                                    |                     |
|------------------------------------|---------------------|
| Battery Type                       | LiFePO4(LFP)        |
| Rated Voltage                      | 51.2Vdc             |
| Rated Capacity                     | 100Ah               |
| Rated Power                        | 5.12kWh             |
| Rated Charging/Discharging Current | 50A                 |
| Max. Charging/Discharging Current  | 100A                |
| Operating Temperature Range        | -10~55°C            |
| Waterproof Rating                  | IP20                |
| Dimension(W*D*H)                   | 440*570*133mm       |
| Net Weight                         | ≈44kg               |
| HV-Tower-16S100 cable accessories  |                     |
| ①                                  | Communication cable |
| ②                                  | Pack power cable    |



HV-60KWH energy storage system cable accessories

- ① P+output power cable
- ② P-output power cable
- ③ PCS communication cable



PS:

This energy storage product is designed for indoor applications and supports multi-cluster parallel operation,which requires the use of industrial air conditioning systems matching both the PCS power rating and battery output power for heat dissipation. Parallel operation is strictly prohibited without a properly matched cooling system(parallel operation requires dedicated BMS control software and an industrial air conditioning system with cooling capacity matching the product's power output; for specific details please contact our technical personnel for upgrade and operational guidance - unauthorized parallel operation is strictly prohibited as it may lead to serious safety incidents). The system is delivered with parallel operation disabled by default. The maximum allowable charge/discharge currents are: 0.9C for <2-cluster, 0.8C for 3-cluster, and 0.5C for 4- cluster parallel configurations. For parallel operation involving more than 4 clusters, customers must consult with our technical personnel for system upgrade and operational guidance before proceeding.