



5.5KWh-26.4KWh

High Voltage Stack Battery

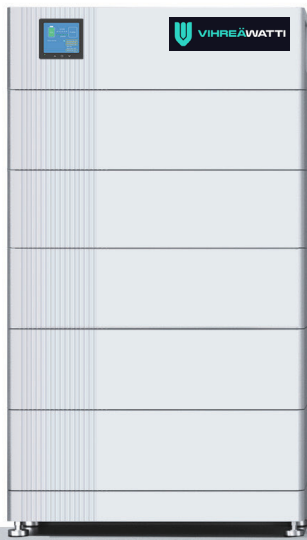
Up to 6 towers in parallel (From 5.5 kWh to 153.6 kWh)



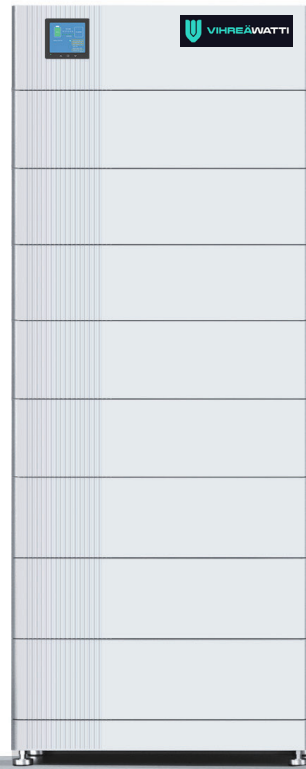
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2 Models for all Scenario

System Energy: 5.52~13.80 kWh
Nominal Voltage: 204V ~ 512V
Stacks: 2-5 Battery



System Energy: 9.9~26.4 kWh
Nominal Voltage: 192V~ 512V
Stacks: 3-8 Battery



Smart System Design

- LFP Chemistry
- Automatic Inverter Configuration (set-up free)
- Automatic Battery System Configuration (set-up free)
- Intelligent Display (Key Info, Err code, SOC)
- Power and Energy for all applications
- 1 and 3 phase, on / off grid / back up support
- No DC/DC, high efficiency system layout
- Up to 6 towers in parallel



Smart Installation Design

- Stackable Design, Easy Installation, ≤ 36.5kg / Stack
- Slim and Compact
- Plug-Play (Direct Connect RJ45)
- VDE2510 Compliances
- Aluminum Housing
- IP65 Protection

Power Type With a Capacity Of 2.76 kWh, 102.4 V In Each Battery Stack.
 an energy type with a capacity of 3.2 kWh, 64 V in Each Battery Stack.



| Smart BMS 1.0 | | |
|-------------------------|------------------|------------------|
| Operating Voltage Range | 120-600V | 120-600V |
| Max Output Current | 30 A | 30 A |
| Peak Output Current | 50 A (5s) | 50 A (5s) |
| Communication | CAN 2.0/ RS485 | CAN 2.0/ RS485 |
| Stacks Scalability | 2 To 5 Stacks | 3 To 8 Stacks |
| Dimensions (H/W/D) | 175* 650* 260 mm | 175* 650* 260 mm |
| Weight | ≤ 20 kg | ≤ 20 kg |



| Battery Stack | | |
|-------------------------|------------------|------------------|
| Usable Energy | 2.76 kWh | 3.3 kWh |
| Battery Cell Technology | LFP | LFP |
| Operation Temperature | -10~55 °C | -10~55 °C |
| Nominal Voltage | 102.4 V | 64 V |
| Operating Voltage Range | 86.4~116.8 V | 54~73 V |
| Max Output Current | 25 A | 30 A |
| Peak Output Current | 50 A (5s) | 50 A (5s) |
| Dimensions (H/W/D) | 175* 650* 260 mm | 175* 650* 260 mm |
| Weight | ≤ 35 kg | ≤ 36.5 kg |

Stackable

Up to 2-8 battery 5.5KWh-26.4KWh

Increase the capacity freely in lifetime It grows as your family grows

Stackable battery units with direct connection

No additional Wires, No additional Screws

1 Person Work

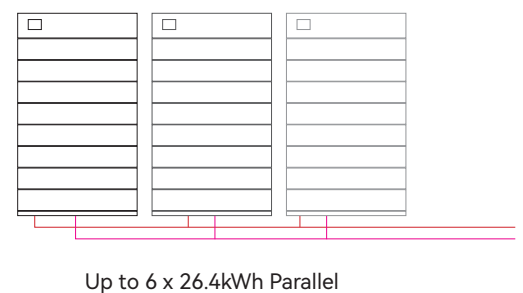
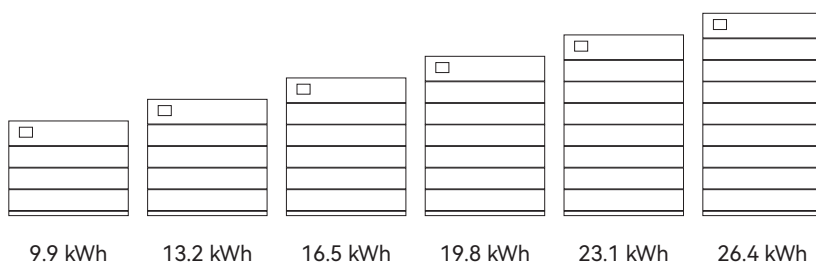
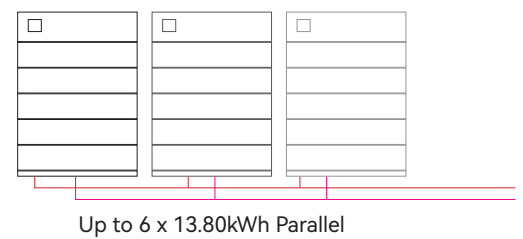
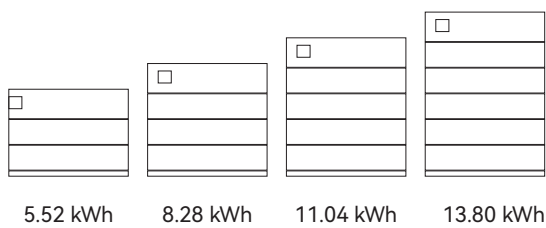
Time saving, Cost Saving



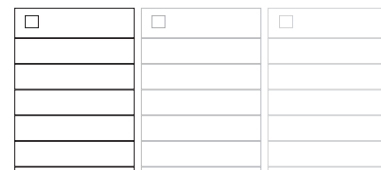


High Scalability, Able To Be Paralleled Up To 6 Towers

Wide capacity options from 5.5kWh to 153.6kWh



5.5KWh-13.8KWh High Voltage Stack Battery

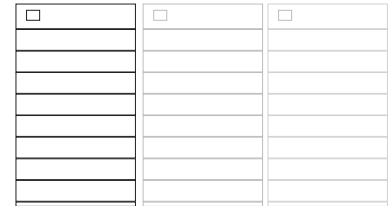


Technical Specification

6 x 13.80kWh **Parallel**


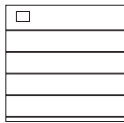
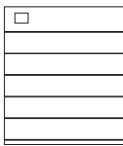
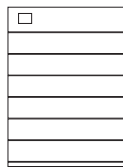
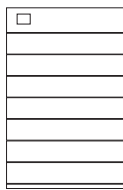

| Number of Stacks | 2 | 3 | 4 | 5 |
|----------------------------|--|-----------------|-----------------|------------------|
| | | | | |
| Usable Energy | 5.52 kWh | 8.28 kWh | 11.04 kWh | 13.80 kWh |
| Max Output Current | 25 A | | | |
| Peak Output Current | 50 A (5s) | | | |
| Nominal Voltage | 204.8 V | 307.2 V | 409.6 V | 512 V |
| Operating Voltage Range | 172.8~233.6 V | 259.2~350.4 V | 345.6~467.2 V | 432~584 V |
| Scalability | Up to 6 towers (From 5.36 kWh to 80.4 kWh) | | | |
| Dimensions (H*W*D) (mm) | 625* 650* 260mm | 800* 650* 260mm | 975* 650* 260mm | 1150* 650* 260mm |
| Weight | 90 kg | 125 kg | 160 kg | 195 kg |
| Operation Temperature | -10~55 °C | | | |
| Protection Rating | IP65 | | | |
| Round-trip Efficiency | ≥ 96 % | | | |
| Certification & Compliance | UKCA / IEC62619 / CEC / CE / UN38.3 | | | |
| Applications | ON Grid / ON Grid Backup / OFF Grid | | | |
| Warranty | 10 Years | | | |

9.9KWh-26.4KWh High Voltage Stack Battery



Technical Specification

6 x 26.4kWh **Parallel**

| Number of Stacks | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------------------|---|---|---|--|--|--|
| |  |  |  |  |  |  |
| Usable Energy | 9.9 kWh | 13.2 kWh | 16.5 kWh | 19.8 kWh | 23.1 kWh | 26.4 kWh |
| Max Output Current | 30 A | | | | | |
| Peak Output Current | 50 A (5s) | | | | | |
| Nominal Voltage | 192 V | 256 V | 320 V | 384 V | 448 V | 512 V |
| Operating Voltage Range | 162~219 V | 216~292 V | 270~365 V | 324~438 V | 378~511 V | 432~584 V |
| Scalability | Up to 6 towers in parallel (From 9.6 kWh to 153.6 kWh) | | | | | |
| Dimensions (H*W*D) (mm) | 800* 650*260 mm | 975* 650*260 mm | 1150* 650*260 mm | 1325* 650*260 mm | 1500* 650*260 mm | 1675* 650*260 mm |
| Weight | 129.5 kg | 166 kg | 202.5 kg | 239 kg | 275.5 kg | 312 kg |
| Operation Temperature | -10~55 °C | | | | | |
| Protection Rating | IP65 | | | | | |
| Round-trip Efficiency | ≥ 96 % | | | | | |
| Certification & Compliance | UKCA / IEC62619 / CEC / CE / UN38.3 | | | | | |
| Applications | ON Grid / ON Grid Backup / OFF Grid | | | | | |
| Warranty | 10 Years | | | | | |



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Three Phase High Voltage Energy Storage Inverters

Features:

- Integrated 2/3/4 MPPTs for multiple array orientations
- Industry leading 50A/10kW max charge/discharge rating
- Automatic UPS switching
- Supports Peak Shaving Mode
- Pre-made Battery, Meter and CAN cabling to reduce installation time
- Supports Unbalanced and Half-Wave Loads on both the Grid and Backup Port
- Compatible with multiple brands of lithium battery models
- Increased battery protection and operation features to extend battery life



360° View

DATASHEET

| Models | 3K | 4K | 5K | 6K | 8K | 10K |
|---|---|-----------------|--------------------|-----------------|---------------------------|-----------------|
| Input DC (PV side) | | | | | | |
| Recommended max. PV power | 4.8 kW | 6.4 kW | 8 kW | 9.6 kW | 12.8 kW | 16 kW |
| Max. input voltage | 1000 V | | | | | |
| Rated voltage | 600 V | | | | | |
| Start-up voltage | 160 V | | | | | |
| MPPT voltage range | 200-850 V | | | | | |
| Max. input current | 16 A / 16 A | | 16 A / 16 A / 16 A | | 16 A / 16 A / 16 A / 16 A | |
| Max. short circuit current | 24 A / 24 A | | 24 A / 24 A / 24 A | | 24 A / 24 A / 24 A / 24 A | |
| MPPT number/Max. input strings number | 2/2 | | 3/3 | | 4/4 | |
| Battery | | | | | | |
| Battery type | Li-ion | | | | | |
| Battery voltage range | 120-600 V | | | | | |
| Max. charge / discharge power | 3 kW | 4 kW | 5 kW | 6 kW | 8 kW | 10 kW |
| Max. charge / discharge current | 25 A | | | 50 A | | |
| Communication | CAN/RS485 | | | | | |
| Output AC (Grid side) | | | | | | |
| Rated output power | 3 kW | 4 kW | 5 kW | 6 kW | 8 kW | 10 kW |
| Max. apparent output power | 3 kVA | 4 kVA | 5 kVA | 6 kVA | 8 kVA | 10 kVA |
| Rated grid voltage | 3/N/PE, 380 V / 400 V | | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | | |
| Rated grid output current | 4.6 A / 4.3 A | 6.1 A / 5.8 A | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A |
| Max. output current | 4.6 A / 4.3 A | 6.1 A / 5.8 A | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A |
| Power factor | >0.99 (0.8 leading - 0.8 lagging) | | | | | |
| THDi | <3% | | | | | |
| Input AC (Grid side) | | | | | | |
| Max. input power | 4.5 kW | 6 kW | 7.5 kW | 9 kW | 12 kW | 15 kW |
| Rated input current | 6.8 A | 9.1 A | 11.4 A | 13.8 A | 18.2 A | 22.8 A |
| Rated input voltage | 3/N/PE, 380 V / 400 V | | | | | |
| Rated input frequency | 50 Hz / 60 Hz | | | | | |
| Output AC (Back-up) | | | | | | |
| Rated output power | 3 kW | 4 kW | 5 kW | 6 kW | 8 kW | 10 kW |
| Max. apparent output power | 4.8 kVA, 60 sec | 6.4 kVA, 60 sec | 8 kVA, 60 sec | 9.6 kVA, 60 sec | 12.8 kVA, 60 sec | 16 kVA, 60 sec |
| Back-up switch time | <10 ms | | | | | |
| Rated output voltage | 3/N/PE, 380 V / 400 V | | | | | |
| Rated frequency | 50 Hz / 60 Hz | | | | | |
| Rated output current | 4.6 A / 4.3 A | 6.1 A / 5.8 A | 7.6 A / 7.2 A | 9.1 A / 8.7 A | 12.2 A / 11.5 A | 15.2 A / 14.4 A |
| THDv (@linear load) | <2% | | | | | |
| Efficiency | | | | | | |
| Max. efficiency | 95.5% | 96.0% | 96.5% | 97.0% | 97.5% | 97.9% |
| EU efficiency | 95.5% | 96.0% | 96.8% | 97.1% | 97.4% | 97.5% |
| BAT charged by PV Max. efficiency | 96.0% | 96.6% | 98.4% | 98.5% | 98.2% | 98.3% |
| BAT charged/discharged to AC Max. efficiency | 97.0% | 97.3% | 97.3% | 97.3% | 97.5% | 97.5% |
| Protection | | | | | | |
| Anti-islanding protection | Yes | | | | | |
| Output over current protection | Yes | | | | | |
| Short circuit protection | Yes | | | | | |
| Integrated AFCI (DC arc-fault circuit protection) | Yes ⁽¹⁾ | | | | | |
| Integrated DC switch | Yes | | | | | |
| DC reverse-polarity protection | Yes | | | | | |
| PV over voltage protection | Yes | | | | | |
| Battery reverse protection | Yes | | | | | |
| General Data | | | | | | |
| Dimensions (W*H*D) | 600*500*210 mm | | | 600*500*230 mm | | |
| Weight | 26.4 kg | | 27.6 kg | | 30.2 kg | |
| Topology | Transformerless | | | | | |
| Self-consumption (night) | <25 W | | | | | |
| Operating ambient temperature range | -25 ~ +60°C | | | | | |
| Relative humidity | 0-95% | | | | | |
| Ingress protection | IP66 | | | | | |
| Cooling concept | Natural convection | | | | | |
| Max. operation altitude | 4000 m | | | | | |
| Grid connection standard | G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15/MFR:2019, 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 | | | | | |
| Safety/EMC standard | IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3 | | | | | |
| Features | | | | | | |
| PV connection | MC4 connector | | | | | |
| Battery connection | Quick connection plug | | | | | |
| AC connection | Quick connection plug | | | | | |
| Display | LED + Bluetooth + APP | | | | | |
| Communication | CAN, RS485, Optional: Wi-Fi, Cellular, LAN | | | | | |

(1) Activation required.