VOLTX ENERGY

HINEN HOME BATTERY SYSTEM

A Series H 20T

53.4 kWh Battery with Three-Phase 20 kW Inverter

All-in-One Powerhouse

Integrated inverter, battery, and smart management in a single sleek unit for a faster, cleaner install.

Seamless Backup Protection

Built-in change over switch keeps your essential appliances running smoothly during outages.

Premium Efficiency

Turn more solar power into usable energy with up to 98% ultra-high conversion rates for lower long-term costs.

Expandable Storage

Scale up easily as your household or business energy needs grow — without replacing the entire system.

Intelligent Control

AI-driven load management and intuitive app monitoring put real-time insights and control at your fingertips.

Flexible Integration

Single-phase and three-phase options designed to work with solar, grid or generator for complete versatility.

Safe & Durable

Built with advanced lithium technology, robust protection, and long-life components for lasting peace of mind.

Sustainable Luxury

Cut your carbon footprint without compromising comfort with a high-performance system designed for the future of energy.

A Series
H 20T

53.4 kWh Battery with Three-Phase 20 kW Inverter

- 4 MPPT inputs, 120% Oversized PV input, Max 30 kW.
- Inverter parallel function, up to 6 units, Max. output power up to 150KW, massive energy storage of 160.2 kWh.
- Stackable integrated design, plug & play, no additional cable, saves 50% installation time.
- 120~600V ultra-wide battery voltage range, realizing 20KW charging & discharging capacity of one way battery.
- Support 100% three-phase unbalanced output.
- The phase sequence does not matter, ensuring easier and more flexible installation.
- Built-in change over switch, allows manual selection between Backup mode and By-pass mode for backup loads.
- Intelligent load management via dry contacts.
- Backup load transfer time ≤10ms.

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Technical Datasheet

Item / Model	A20000T A20000T-E
PV Input Specification	
Recommended max. PV input power	30000W
Max. PV input voltage	1000d.c.V
Startup voltage	120d.c.V
Rated PV input voltage	600d.c.V
PV voltage range	140d.c.V - 950d.c.V
No. of independent MPPT inputs	4
No. of PV strings per MPPT	1/1/1/1
Max. input current per string	16/16/ 16/ 16 Ad.c.
Max. short-circuit current	22/22/ 22/ 22 Ad.c.
Max. inverter backfeed current to the array	0Ad.c.
Battery Port Specification	
Battery type	Li-ion Battery
Battery voltage	120d.c.V - 600d.c.V
Max. charge / discharge current	45Ad.c./45Ad.c.
Max. charge / discharge power	20000W/20000W
Max. short-circuit input current	210Ad.c.
Communication	CAN
Charging strategy	BMS instructions
Battery expansion	1~3 series-connected 8.9kWh high-voltage battery modules per cluster
Grid Port Specification	
Rated AC input apparent power	20000VA
Max. AC input current	30.4Aa.c.
Rated AC output power	20000W
Rated AC output apparent power	20000VA
Max. AC output current	30.4Aa.c.
Rated AC output current	29Aa.c.
AC output inrush current	68.8Aa.c.
Max. backfeed short-circuit current	150Aa.c.
AC input inrush current	56Aa.c.
Rated AC voltage	400Va.c./230Va.c., 3L/N/PE
Rated grid frequency	50Hz/60Hz
THDI @Full load	< 3%
Power factor at rated power / Adjustable power factor	> 0.99(0.8 leading -0.8 lagging)
Backup Port Specification	
Rated AC output apparent power	20000VA
Rated AC output power	20000W
Max. AC output current	29Aa.c.
Peak AC output power	20000W
AC nominal voltage	400Va.c./230Va.c., 3L/N/PE
AC nominal frequency	50Hz/60Hz
THDV @Linear load	< 3%
Back-up switch time	< 10ms

Technical Datasheet

Item / Model	A20000T A20000T-E
Efficiency	
Max. efficiency	98.0%
European efficiency	97.4%
Protection & Function	
DC switch	yes
PV reverse polarity protection	yes
BAT reverse protection	yes
Output AC overcurrent protection	yes
Output AC overvoltage protection	yes
Anti-islanding protection	yes
Residual current detection	yes
Insulation resistance detection	yes
Active anti-islanding method	yes (Frequency Shift)
Over voltage category	DC type II/AC type III
Protective class	Class I
General Information	
Topology (solar / battery)	Transformerless/Transformerless
Ingress protection rating	IP65
Pollution degree classification	External (PD3), Internal (PD2)
Dimensions (W * H * D)*	730 *1,730 *180 mm (±4mm)
Weight*	574.8KG (±3KG)
Installation type	Floor stand
Operating ambient temperature	-20 °C - 60 °C (> 45 °C derating)
Relative humidity (Non-condensing)	0% - 100%
Cooling method	Fan cooling
Noise(MAX)	< 45dB
Max. operating altitude	3000m
Wet locations classification	Yes
Display	LCD+APP
Monitor	RS485/WIFI
DC connection	MC4
AC connection	5P Connector
Warranty	10 years
Country of manufacture	Made in China
Certification & Standard	
Certification	CB, CE, UKCA, SONCAP, RCM, ROHS
Standard	IEC/EN 62109-1, IEC/EN 62619-2, IEC 62619, IEC 60730-1 Appendix H,IEC/EN 62368-1, EN IEC 61000-6-1/3, IEC 61 000-2-2, CISPR 11, IEC 60529, IEC 60068-2-52,AS/NZS 4777.2, IEC 62947.3, AS 60947.3, VDE-AR-N 4105, EN 50549-1 ,G98, G99, UN 38.3, MSDS

Dimensions (W * H * D)*: Total dimension of inverter and control box. Weight*: Total weight of inverter and control box.

Technical Datasheet

Item / Model	A20000T
Hybrid inverter Rated AC output power Dimension (W*H*D) Weight	20000W 730mm*637mm*l80mm 59kg
Control box	Built-In Grid/ Backup/ DC Circuit Breaker

Item / Model	B8900M-HA
High Voltage Battery Management System Operating Voltage Max.Charge/ Discharge Current Operating Temperature Ingress Protection Dimension (W*H*D) Weight	135~583.2VDC 52A -20° C~60° C IP65 730*160*180mm 10kg
Battery Module Battery Type Nominal Voltage Rated Capacity Rated Energy Max. Charge/ Discharge Current Charge Temperature Discharge Temperature Ingress Protection Dimension (W*H*D) Weight	LiFePO4(LFP) 172.8V 52Ah 8.985kWh 52A 0° C~SS° C -20° C~60° C IP65 730*510*180mm 83kg
Battery Module Base Dimension (W*H*D) Weight	730*40*180mm 5.8kg

Hinen Smart Energy Management System

Cloud-Based App

Live Insights at a Glance

- Get real-time updates every 10 seconds
- Monitor energy production, consumption, and device status
- Instantly detect energy spikes or inefficiencies
- Act quickly with live performance insights

Custom Power Modes

- Tailor your energy system's operation modes
- Respond to grid pricing fluctuations in real time
- Maximize cost savings through smart scheduling
- Optimize energy use for efficiency and control

Smart Energy Sharing

- Enable shared access to energy system controls
- Allow family or friends to co-manage usage
- Promote collaboration in energy decisions
- Improve overall energy efficiency together

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For end users

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