

# HINEN HOME BATTERY SYSTEM

A Series H 20T  
35.6 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.



## Premium Efficiency

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



## Intelligent Control

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



## Safe & Durable

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



## Seamless Backup Protection

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



## Expandable Storage

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



## Flexible Integration

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



## Sustainable Luxury

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

# A Series H 20T

35.6 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 charge 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  $\leq 10\text{ms}$ .

# Technical Datasheet

Item	Model	A20000T A20000T-E
<b>PV Input Specification</b>		
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.
<b>Battery Port Specification</b>		
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
<b>Grid Port Specification</b>		
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)
<b>Backup Port Specification</b>		
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
<b>Efficiency</b>		
Max. efficiency		98.0%
European efficiency		97.4%
<b>Protection &amp; Function</b>		
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
<b>General Information</b>		
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*		400.88KG (±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
<b>Certification &amp; Standard</b>		
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
<p><b>Hybrid inverter</b>            Rated AC output power            Dimension (W*H*D)            Weight</p>	<p>20000W            730mm*637mm*180mm            59kg</p>	
<p><b>Control box</b></p>	<p>Built-In Grid/ Backup/ DC Circuit Breaker</p>	
Item	Model	B8900M-HA
<p><b>High Voltage Battery Management System</b>            Operating Voltage            Max.Charge/ Discharge Current            Operating Temperature            Ingress Protection            Dimension (W*H*D)            Weight</p>	<p>135~583.2VDC            52A            -20° C~60° C            IP65            730*160*180mm            10kg</p>	
<p><b>Battery Module</b>            Battery Type            Nominal Voltage            Rated Capacity            Rated Energy            Max. Charge/ Discharge Current            Charge Temperature            Discharge Temperature            Ingress Protection            Dimension (W*H*D)            Weight</p>	<p>LiFePO4(LFP)            172.8V            52Ah            8.985kWh            52A            0° C~55° C            -20° C~60° C            IP65            730*510*180mm            83kg</p>	
<p><b>Battery Module Base</b>            Dimension (W*H*D)            Weight</p>	<p>730*40*180mm            5.8kg</p>	

# 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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