

HEIWIT

Sodium-Ion Battery

Tomorrow designed today

ITALIAN
PROJECT
GUARANTEED

10
YEARS



Sodium innovation powering a more sustainable energy future

Our sodium-ion
batteries are at the
heart of a new era
in energy storage

Our goal is to make your solar power system more efficient, dependable, and secure.

This is how cutting-edge technology becomes a meaningful choice for your home and tomorrow.



Sodium-ion Battery

Sodium-ion batteries are redefining the future of energy storage.

How do they work?

By harnessing the natural abundance of sodium, we've developed a storage solution that's inherently safer and more sustainable for your solar power system. This is how choosing the right technology becomes a meaningful investment in tomorrow.

Using an advanced electrochemical process, your solar energy is stored so it's ready whenever you need it. This storage system delivers a steady, efficient, reliable, and safe power supply.

Voltage:

48v

Capacity:

210Ah

Energy:

10 kWh

Dimensions (L x P x H):

465*268*918mm





The numbers

Choosing Heiwit
means believing in a
brighter tomorrow.

We rely on data that proves our
competitive edge and dependability.

10 kWh

Storage capacity

UPS

UPS backup function
with 10 ms activation

5000w

Maximum power

>95%

Energy efficiency rate

Up to 30 kWh

Modular, up to 3 batteries
in parallel.



Artificial intelligence for energy savings.

Maximize self-consumption, sell your energy when it's worth the most, and protect your batteries.

Learn more:
heiwit.com/ai-care



AUTOMATIC SELF-CONSUMPTION OPTIMIZATION

AI-Care works for you and sells your energy when it delivers the highest return.



PREDICTIVE BATTERY DIAGNOSTICS

Continuous monitoring of the sodium-ion battery pack for maximum reliability and lifespan.



MONITORING & REPORTING

Everything under control, at all times.

BENEFITS

- ✓ Higher earnings: excess energy is sold when market prices are at their highest
- ✓ Maximum self-consumption of the energy produced by your system
- ✓ Even greater savings on your electricity bill
- ✓ Batteries monitored and protected through predictive diagnostics
- ✓ A tangible contribution to environmental sustainability



HEIWIT
SODIUM-ION BATTERY

Batteria agli ioni di sodio

Batteria agli ioni di sodio
Modello: HEI-1000-100Ah
Capacità: 100Ah
Tensione: 2.8V
Peso: 10kg
Dimensioni: 400x200x100mm
CE
MADE IN CHINA

Our commitment, defined by 5 values

For us, innovation
isn't a destination,
it's a journey.

The five values we believe in guide us
as we create energy that's not only
efficient, but also responsible,
sustainable, and safe.



Italian Project

Heiwit is an Italian project, with service centers located within our territory. All system monitoring data is managed on our servers in Italy.



Sustainability

An innovation born from respect for our planet. Our batteries are 100% recyclable, eliminate dependence on materials such as lithium and cobalt, and actively contribute to a greener future.



Safety

Our sodium-ion technology ensures high thermal stability, minimizing the risks of overheating and fire.



Longevity

Our batteries deliver consistent performance over time and reliability for years to come.



Efficiency

95%, the efficiency of our battery. Fast charging and continuous availability are at the core of our technology.

Sodium-ion battery 10kWh

compatible with VIRGO and LYBRA inverters

	Battery Model	HEIWIT-NA-48V210Ah
Performance	Battery Module Capacity	10 kWh
	Maximum Charge/Discharge Power	5000 W
	Rated Output Power	5 kW
	Peak Output Power	6 kW
	Nominal Voltage	48 V
	Minimum Capacity	210 Ah
	Maximum charging voltage	60 V
	Maximum charging current	100 A
	Maximum discharge current	100 A
	Charging Method	Fast charging
	Recommended DoD	90%
Communication	Display	Color LED touch panel, SOC indicator
	Communication	CAN Bus/RS485
	BMS	Integrated, optimized, connected to APP through inverter
General Specifications	Sound Emission	Imperceptible noise
	Dimensions (L*W*H)	465*268*918mm
	Weight	<116 kg
	Ambient temperature range	-25 to +60 °C
	Storage temperature range	-40 to +70°C
	Installation Location	Indoor use
	Relative Humidity	from 0% to 100%
	Chemical composition of the cells	Sodium-ion
	Scalability	3 units in parallel
	Safety and EMC certifications	PPP 51096A IEC 60730-1:2013+AMD1:2015+AMD2:2020 Annex H IEC 62040-1:2017 + AMD1:2021+AMD2:2022 IEC 61000-6-3:2021 IEC 6100-6-1:2019 CEI-021:2022/V2:2022 CEI-021:2022/V3:2024
	IP protection rating	IP20
	Warranty	10 years



VIRGO Hybrid Inverter

Three-phase

	Inverter Model	3K-S	4K6-S	6K-S
DC Input (PV)	Maximum Input Power	8000 W	9000 W	9000 W
	Max PV Input Voltage		600 V	
	Number of MPPT Trackers		2	
	MPPT Voltage Range / Number of MPPTs		100-550 V / 2	
	PV Start-Up Voltage (Vdc)		80 Vdc	
	Max PV Input Current per MPPT		16 A	
	Max PV Short-Circuit Current per MPPT		20 A	
Battery Port Parameters	Battery Type	Sodium Ion		
	Battery Nominal Voltage	48 V		
	Battery Voltage Range	32-60 V		
	Nominal Charge/Discharge Power	5000 W		
	Maximum charge/discharge current	100 A		
AC Side	Rated AC output power	3000 W	4600 W	6000 W
	Maximum input current	26 A	40A	43.5 A
	Output frequency		50 Hz	
	Rated output current	13 A	20 A	26.1 A
Efficiency	Peak efficiency	98 %		
	European efficiency	97,3 %		
	Maximum battery-to-load efficiency	94,7 %		
	MPPT efficiency	99.9 %		
Protection & Monitoring	Isolation resistance monitoring	Built-in		
	Residual current monitoring	Built-in		
	Reverse polarity protection	Built-in		
	Anti-islanding protection	Built-in		
	AC overcurrent protection	Built-in		
	AC short circuit protection	Built-in		
	Remote shutdown	Built-in		
General Specifications	Nighttime self-consumption	<10 W		
	Dimensions	510*450*188 mm		
	Weight	<27 kg		
	Mounting	Wall-mounted		
	Operating temperature range	-25 to 60 °C		
	Relative humidity range (RH)	0-100 %		
	Maximum operating altitude	4000 m		
	Noise emissions	<25 dB		
	BMS communication	CAN/RS485		
	Remote control interfaces	Wi-Fi, LAN		
	HMI / remote app	LCD with synoptic and proprietary remote app		
	Topology / operating mode	On-grid + Offgrid (hybrid)		
	Cooling method	Silent natural convection (heatsink)		
	IP protection rating	IP66		
	Auxiliary communication protocol	CAN Bus/RS485		
	Warranty	10 years		
Certifications	Product compliance	IEC62109-1 :2010; IEC62109-2:2010		
	CE-EMC	EN/IEC 61000-6-1 :2019; EN/IEC 61000-6-3:2021; EN 62920:2017/A1 :2021		
	Grid certification	CEI 0-21 :2022; VDE-AR-N 4105,VDE 0124-100:2020; G99 1-9:2022,typeA, G100-1/2:2022; EN 50549-1 :2019; C10/11 :2021; IEC 61727:2024, IEC 62116:2014, IEC 61683:1999		

LYBRA Hybrid Inverter

Three-phase

	Inverter Model	6K-T	10K-T	12K-T
Off-Grid Output	Rated Output Power	6 kW	10 kW	12 kW
	Maximum Output Power	6,6 kVA	11 kVA	13,2 kVA
	Peak Power & Duration	20 kVA (10s)*		
	Maximum Output Current	10 A	16 A	20 A
	Rated Output Voltage	L/N/PE, 220V / 230V / 240V		
	Transfer Time	< 10 ms		
	Maximum Generator Current	36,4 A		
	Generator Voltage Range	185–276 V (P2N)		
On-Grid Parameters	Rated Output Power	6 kW	10 kW	12 kW
	Maximum Output Power	6,6 kVA	11 kVA	13,2 kVA
	Maximum Output Current	10 A	16 A	20 A
	Maximum Input Power	24 kVA		
	Rated Grid Voltage	3/N/PE, 220/380 Vac, 230/400 Vac		
	Grid Voltage Range	185–276 V (P2N)		
	Grid Frequency	50/60 ± 5 Hz		
PV Input	Maximum PV Input Power	18 kW		
	Maximum Input Voltage	800 V		
	Number of MPPTs	3		
	Maximum Strings per MPPT	1/1/1		
	MPPT Voltage Range	130–800 V		
	Start-up Voltage	140 V		
	Maximum Input Current	20 A / 20 A / 20 A		
Battery Parameters	Short-Circuit Current	24 A / 24 A / 24 A		
	Battery Type	Sodium-Ion		
	Number of Battery Inputs	2		
	Battery Voltage Range	30–60 V		
Efficiency	Charge/Discharge Current	125 A × 2		
	Maximum Efficiency	98.20%		
	European Efficiency	97.70%		
General Data	Maximum Battery Charge/Discharge Efficiency	95,00%		
	Dimensions (W × H × D)	465mm*665mm*175mm		
	Weight	36 kg		
	Noise Level	< 45 dB(A)		
	Operating Temperature	from -25°C to +60°C (derating above 45°C)		
	Operating Altitude	4.000 m (derating above 3.000 m)		
	Cooling	Intelligent Cooling		
	Protection Rating	IP65		
	Topology	Isolated		
	Communication Interfaces	CAN (Battery) / Wi-Fi / LAN / Bluetooth / RS485		
Protection	Warranty	10 years		
	Included Protections	DC Switch; Reverse Polarity Protection; AC Overvoltage / Overcurrent / Short-Circuit Protection; Anti-Islanding Protection; Residual Current Monitoring; Insulation Resistance Monitoring; DC Type II / AC Type III		
	Certifications	IEC62109-1&2, IEC62040-1		
	Grid Connection Standards	EN61000-6-1/2/3/4; EN61000-4-16/18/29 VDE-AR-N 4105; VDE 0126-1-1; EN 50549-1; G98; G100; CEI 0-21; AS/NZS4777.2; NRS 097-2-1		



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