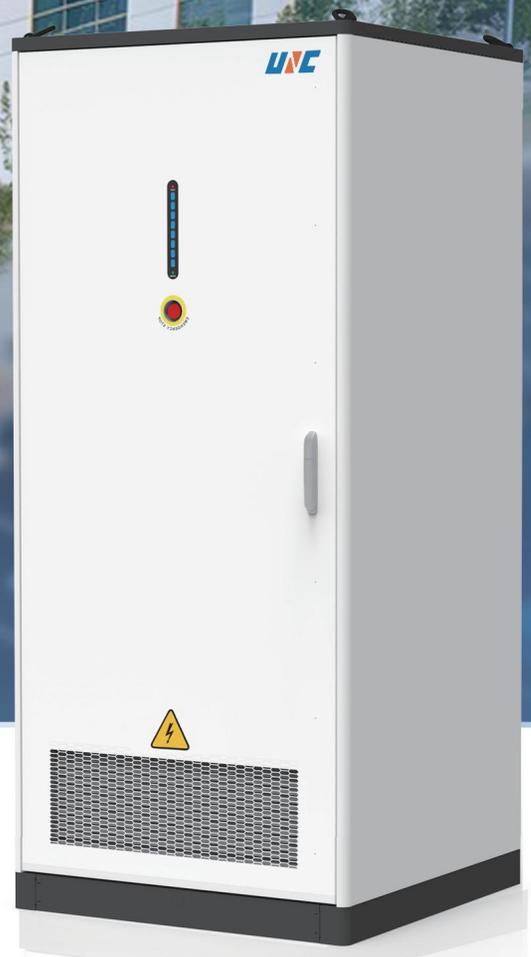


Off-Grid Solar Energy Storage All-in-One Unit 50kW/100kWh

The outdoor off-grid solar and storage integrated system showcases broad application prospects thanks to its high efficiency, independence, and sustainability. It can provide stable and reliable power supply for remote areas/Natural disaster zones/Outdoor activities & Military operations. Additionally, it plays a crucial role in fields such as Agricultural irrigation & Mobile communication. This system offers users convenient and personalized energy solutions.



Product Core Highlights



All-in-One Design: Modular installation, suitable for all industrial and commercial scenarios.



100% Three-Phase Imbalance Support: Allows flexible load configurations to adapt to different needs.



Intelligent Remote Operation, Management, and Control: Enables smart monitoring and management of system performance.



Smart Early Warning System with Comprehensive Fire Safety: Incorporates multi-layer protection, including detection, prevention, ventilation, and suppression, ensuring intrinsic safety.



Integrated 2-8 MPPT Inputs: Supports multiple photovoltaic interfaces for enhanced connectivity and efficiency.



Built-in Features: Soft start, battery cluster current and voltage detection, short-circuit protection, remote switching on/off, and more.

Product model	GWESTS50-100kWh-400-A
DC pool parameters	
Cell type	LFP 280Ah
Battery Pack capacity and configuration	14.336kWh/1P165
Battery Capacity/Pack Quantity	100kWh/7, optional 115kWh/8
Battery voltage range	314V~403V
Rated charge and discharge rate and current	0.5C, 140A
Maximum charge and discharge current	280A
Cycle Life	>8000
Number of Temperature Sensors	56
The DC/DC module parameters	
Low Voltage Side Voltage Range	150V~1000V
Low Voltage Side Full Power Minimum Voltage	340V
Rated Current	160A
Rated Power	50kW
The PV parameters on the DC side	
Maximum Input Power	100kW
Maximum Input Current	160A
Voltage Range/System Bus Voltage	650V ~800V
Input Switch	250A/1000Vdc/2P
AC side parameters(synchronize and close)	
AC Rated Power	50kw
AC Maximum Power	55kW
Rated Current	75A
Current Distortion Rate	<3%
DC Component	<0.59%I _{pn}
System Voltage Configuration	3W+N+PE
Voltage Range	360VAC~440VAC
Frequency Range	45~55Hz/55~65Hz
Frequency Range	-1~1
AC side parameters(Off-grid)	
Rated Output Power	50kW
Maximum single-phase output power	30kW
Rated Output Voltage	400V
Rated Output Frequency	50/60Hz
Voltage Distortion Rate THDu	<3%
Overload Capability	110% overload for 10 min
Off-grid switching and switch configuration	
Bypass Maintenance Switch	125A/400Vac
Load Switch	125A/400Vac
Grid Switch	250A/400Vac
STs Switch	250A/100kW
Switching Time	STS<20ms
System parameter	
Maximum System Efficiency	≥90%
Cooling Method	Intelligent air cooling
Operating Temperature	-30~55°C(use over 40 degrees)
Relative Humidity	0 ~ 95% RH, no condensation
Dimensions (LxWxH)	1050x1050x2050 mm
weight	1800kg
Protection Level	IP54
Noise	<70dB
Networking Methods	4G / Wifi / Ethernet TCP /IP
Fire Protection	Aerosol
Display Screen	LCD Touch Screen