GROWATT



C&I ESS SOLUTION

WIT 63-125kW Hybrid Inverter + AXE 88~286H-2H Stack Battery*
(63~1250kW/88~11440kWh)

High Performance

Operating temperature: -30℃ to 55℃
160% rated AC overload capability
100% Unbalanced Output

Strong Compatibility

Wide battery voltage range 180-1000V
Support to connect to 3rd-party EMS/VPP
AC coupling via GEN port

High Scalability

Single cluster battery capacity: 88~286 kWh
Battery up to 4 clusters in parallel = 1.14MWh (DC side)
Max.support 10 units parallel connection

Intelligent Control

Peak shaving, export limitation, load tracking, demand management, backup power, phase-level management

Safer & Eco-friendly

LFP batteries, support aerosol fire extinguishing, non-toxic, non-polluting and environmentally friendly

Easy O&M

Modular design,Air-cooled system, supports remote monitoring, simple operation and maintenance

*This version is the European version.

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Versatile Application Functions

Self-Consumption

Store surplus solar energy for later use to maximize the solar energy self-consumption rate

Peak-Shaving

Charges as a load during low-load periods; discharges as a power source during peak-load periods.

Time of Use

Charge during off-peak hours and discharge during peak hours to arbitrage electricity rates

Back-up

Provide instant and stable backup power to critical loads during grid outages

Demand Management

Dynamically control peak demand and optimize load profiles to lower capacity tariffs and line charges

Microgrid

Form a resilient microgrid with PV, battery, and generator integration for off-grid or weak-grid stability

Various optional configurations

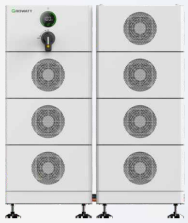
Solution	Invert Model	BAT Configuration
2h	WIT 63K-XHU	AXE 132H-2H
	WIT 75K-XHU	AXE 154H-2H
	WIT 85K-XHU	AXE 176H-2H
	WIT 100K-XHU	AXE 220H-2H
	WIT 125K-XHU	AXE 264H-2H
3h	WIT 63K-XHU	AXE 198H-2H
	WIT 75K-XHU	AXE 242H-2H
	WIT 85K-XHU	AXE 264H-2H
	WIT 100K-XHU	2*AXE 154H-2H
	WIT 125K-XHU	2*AXE 176H-2H
4h	WIT 63K-XHU	1*AXE 264H-2H
	WIT 75K-XHU	2*AXE 154H-2H
	WIT 85K-XHU	2*AXE 176H-2H
	WIT 100K-XHU	2*AXE 220H-2H
	WIT 125K-XHU	2*AXE 264H-2H

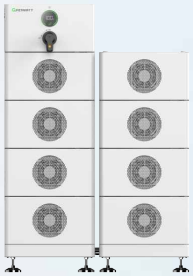
Single Cluster Capacity Range

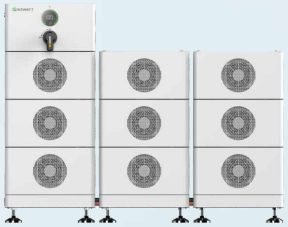

AXE 88H-2H

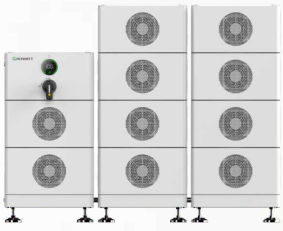

AXE 110H-2H

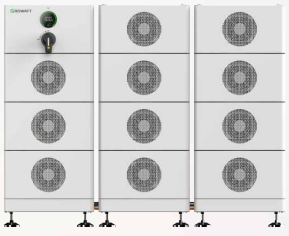

AXE 132H-2H

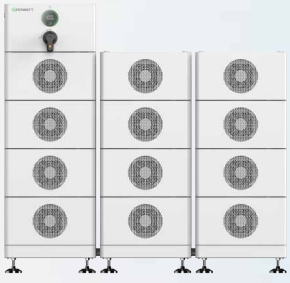

AXE 154H-2H

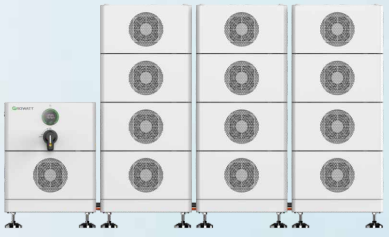

AXE 176H-2H


AXE 198H-2H

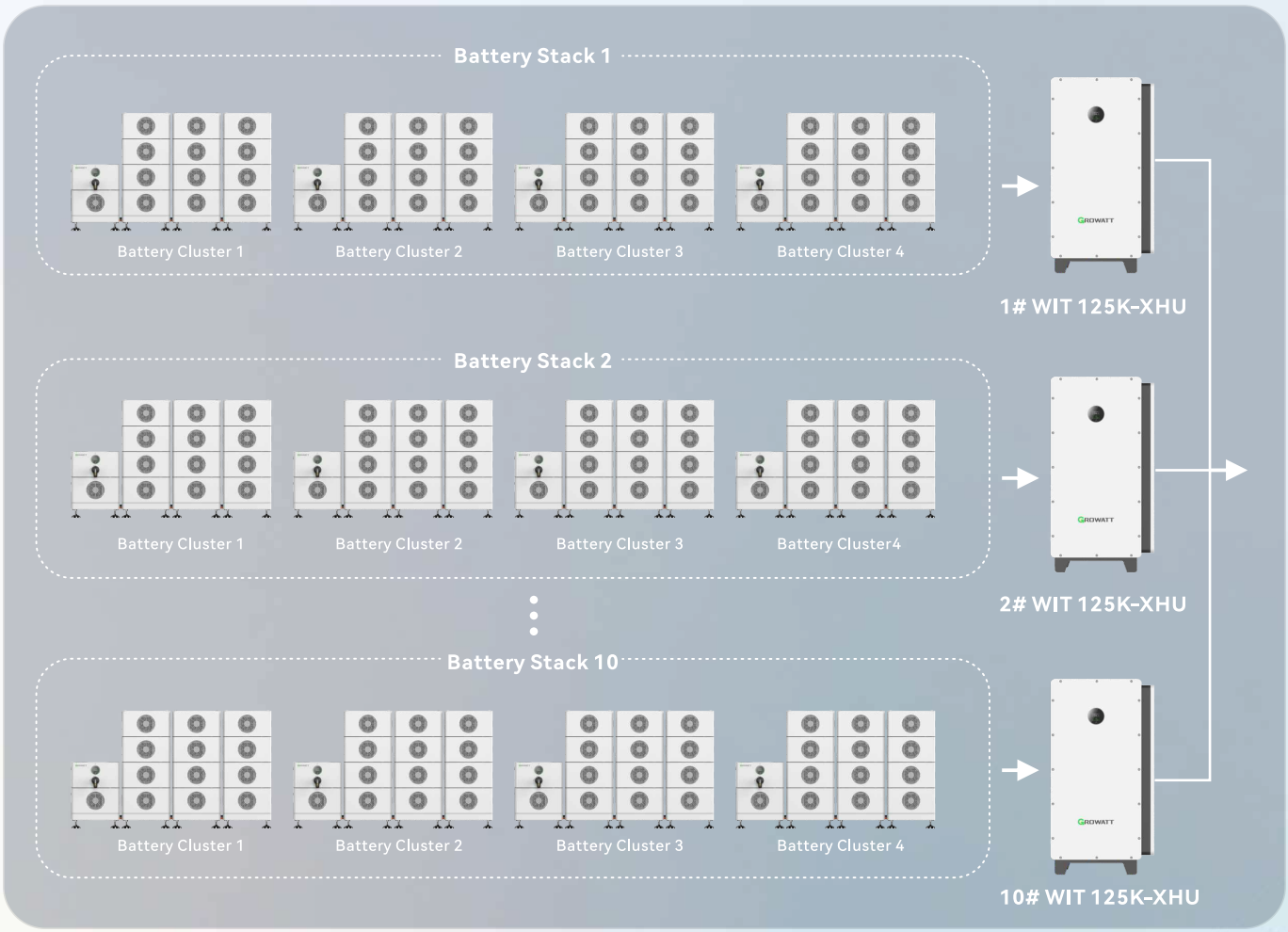

AXE 220H-2H


AXE 242H-2H


AXE 264H-2H


AXE 286H-2H

Wide Parallel Capacity Range



GroMinder Platform

Energy & Device Management Platform

Core Features

- Quick site setup and commissioning
- Precise operation data display
- Intelligent charging/discharging strategies
- Real-time equipment monitoring
- Smart energy scheduling
- Supports one-click export of data reports.
- Clear visualization of user benefits
- 24/7 Assistant support



Datasheet	WIT 63K-XHU	WIT 75K-XHU	WIT 85K-XHU	WIT 100K-XHU	WIT 125K-XHU
Input Data (PV)					
Max. recommended PV power (for module STC)	126kW	150kW	170kW	200kW	250kW
Start voltage			195V		
Max. open circuit voltage of PV			1000V		
MPPT nominal voltage/range			180V-1000V		
Max. input current per MPP tracker			42A		
Max. short-circuit current per MPP tracker			50A		
No. of PV strings per MPP tracker			2		
No. of MPP trackers			10		
Output Data (AC)					
AC nominal power	63kW	75kW	85kW	100kW	125kW
Max. AC apparent power	69.3kVA	82.5kVA	93.5kVA	110kVA	137.5kVA
Nominal AC voltage/range			380/400/415V, -15%~+10%		
AC grid frequency/range			50/60Hz, 45-55Hz/55-65Hz		
Max. output current	105A	125A	141.7A	166.7A	208.3A
Adjustable power factor			-1...+1		
THDi			<3% (@100% load)		
AC grid connection type			3P3W+PE/3P4W+PE		
Input Data (AC/GEN)*					
Nominal AC voltage/range			380/400/415V, -15%~+10%		
Nominal AC grid frequency/range			50/60Hz, 45-55Hz/55-65Hz		
AC grid connection type			3P3W+PE/3P4W+PE		
Rated input power	63kW	75kW	85kW	100kW	125kW
Max. input current			250A		
Battery Data (DC)					
Continuous charging and discharging power	63kW	75kW	85kW	100kW	125kW
Battery voltage range			180-1000V(>900V derating)		
Max charging and discharging current			200A		
BMS communication			RS485/CAN		
Backup Power (AC) *					
Rated AC output power	63kW	75kW	85kW	100kW	125kW
Max. AC apparent power	69.3kVA	82.5kVA	93.5kVA	110kVA	137.5kVA
Nominal AC voltage			220/230/240V(L-N), 380/400/415V(L-L)		
Nominal AC output frequency			50/60Hz		
Load connection			3P3W+PE/3P4W+PE		
Max. output current	105A	125A	141.7A	166.7A	208.3A
THDv			<3% (Linear load)		
Load unbalance			100% three-phase unbalanced		
Overload capacity			≤110%: Continues; 160%: 10s		
On/Off grid transfer time			≤10ms		
Efficiency					
Max. efficiency			98.5%		
Protection Devices					
DC reverse polarity protection			Yes		
Battery reverse protection			Yes		
AC/DC surge protection			Type II		
Insulation resistance monitoring			Yes		
Ground fault monitoring			Yes		
Grid monitoring			Yes		
Residual-current monitoring unit			Yes		
AC short-circuit protection			Yes		
Strings monitoring			Yes		
Anti-islanding protection			Yes		
PID protection			Yes		
AFCI function			Yes		
General					
Dimensions (W/H/D)			720/1360/400mm		
Weight			160kg		
Operating temperature range			-30℃~60℃, >50℃ derating		
Relative humidity			0~100%		
Altitude			≤4000m		
Topology			Transformerless		
Cooling			Smart air cooling		
Enclosure			IP66		
Display			OLED+LED/WIFI+APP		
Interfaces: RS485/CAN			Yes		
Interfaces: WIFI/4G/LAN			Opt		
Warranty (5/10 years)			Yes/Opt		
IEC/EN 62109-1/2; IEC/EN 61000, IEC/EN 62920; EN 50549-1/10; EN 50549-2; CB; UNE 217001,UNE 217002,NTS Type B; IEC 61683/60068; IEC 62116/61727; RoHS; NRS 097-2-1; CEI 0-21/0-16					

*Please refer to the user manual for details on the types of connectable loads and overload capacity.

AXE 88~286H-2HS-S1	
Control Module	
Modle	AXE 1000200-C1
Operation Voltage Range	200-1000V
Rated Charge/Discharge Current	160A
Max, Charge/Discharge current	250A
Operation Temperature	-25~+55℃ (>45℃ derate)
AC Input Voltage Range	85-264V
DC Input Voltage Range	200-1000V
Dimensions (W/D/H)	435/1045/230mm
Weight	≤34kg
Protection Degree	IP20
Battery Pack	
Modle	AXE 22H-2H-B1
Battery Pack Configuration	1P20S
Battery Cell Type	LFP
Battery Energy	22kWh
Rated Voltage	64V
Voltage Range	56-72V
Max, Charge/Discharge current	160A/200A
Dimensions (W/D/H)	435/1000/230mm
Weight	≤143kg
IP Degree	IP20
Battery System	
Modle	AXE 88~286H-2H Stack Battery
Battery System Configuration	4-13PACKs
Battery System Energy	88-286kWh
Battery System Voltage	224-936V
Rated Charge/Discharge Current	160A/200A
Operation Temperature	-10℃~55℃ (< 10℃ required Heating film)
Storage Temperature	-20℃~50℃
DOD	95%
Operation humidity	5~95% RH (no condensation)
Installation	Floor-standing installation
Altitude	≤3000m
Cooling Method	Smart Air-cooling
IP Degree	IP20
Communication Method	RS485/CAN/USB
UN38.3, IEC61000-6-2/4; IEC 62619; IEC 62477; RoHS; CB	

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