

ATG Home Battery Stack



# American ESS split-phase All-in-one 10kW/12kW&10/15/20kWh

Designed, Developed, and  
Technical Supported in USA



## FEATURES



### Safe

- Physical and electrical dual isolation
- Modular fire protection integration
- AFCI & RSD function integration



### Smart

- Multi-point real-time monitoring, adaptive SOC management
- PACK-level battery management, active balance of charging and discharging
- Intelligent energy management with weather forecast function



### Simple

- All-in-one design
- Modular installation
- Multiple battery expansion



### Independent

- Pack level smart management
- Mixed use of new and old batteries usable energy gain
- Effortlessly manage your system and access data with our user-friendly app

# Technical Specifications



## ▼ System Specification

Model	ATG-ST-H01-10kW Series	ATG-ST-H01-12kW Series
Inverter Model	ATG-I-H01-10kW	ATG-I-H01-12kW
Battery System Model		1
Number of Battery Module		ATG-B-H01-5kWh
Start-up Voltage		1~4
<b>General</b>		
System Capacity		10/15/20kWh
Rated System Power	10kW	12kW
Peak Output Power (With Solar)	20kw 10s	24kW 10s
Peak Output Power (Without Solar)		11.4kW 10s
Installation Dimension (W*H*D)	31.5*80.5*9.4(in)/800*2045*240(mm) (four battery modules, with foundation)	
Noise Emission	<40dB	
Cooling Type	Natural cooling	
Altitude	3000m/9842ft (Derating above 2000m/6561ft)	
Operating Temperature	-20~50(°C)/-4~122(°F)	
Recommended Operating Temperature	15~30(°C)/59~86(°F)	
Operating Humidity	0~100%RH(Non-condensing)	
Display	LED&APP	
Installation Method	Floor and Wall-mounted	
Certification	UL9540/UL9540A,UL1973,UN38.3,Portal-Wi-Fi(standard)/4G(optional),Meter-RS485,UL1741,CFR 47, FCC Part 15,UL1741SB,CSA C22.2,IEEE1547,IEEE1547.1,UL1699B,UL1998,CEC,PVRSS,IEEE 2030.5	

## ▼ Hybrid Inverter Specifications

<b>DC Input (PV)</b>		
Recommended Max.PV Input Power		18kWp
Max.PV Input Voltage		500Vdc
No.of MPPTs		4
No.of PV Strings Per MPPT		1/1/1/1
Max.PV Input Current		15A/15A/15A/15A
Max.Short Current		18.75A/18.75A/18.75A/18.75A
MPPT Voltage Range		100~500Vdc
Starting Voltage		125Vdc
DC (PV) Switch		Yes
<b>DC Input (Battery)</b>		
Battery Voltage Range		360~500Vdc
Max.Charge/Discharge Current		28A
<b>AC Input and Output (On-Grid)</b>		
Rated AC Output Power	10kW	12kW
Rated AC Output Voltage		240Vac
Grid Voltage Range		211.2~264Vac
Max.AC Output Current	41.7A	50A
Max.AC Input Current	41.7A	50A
Frequency		60Hz
Grid Frequency Range		58.5~61.2Hz
Power Factor		>0.99(rated power)
Adjustable Power Factor		0.8(leading)~0.8(lagging)
THDI		<3%(rated power)
<b>AC Input (GEN)</b>		
Max.AC Output Power	10kW	12kW
Max.AC Current	41.7A	50A
AC Voltage	240Vac/120Vac, 2W/N/PE, split phase	
<b>AC Output (Back-up)</b>		
Rated AC Output Voltage	240Vac/120Vac, 2W/N/PE, split phase	
Rated Output Frequency	60Hz	
Rated Output Power	10kW	12kW
Peak Output Power	20kW,10s	24kW,10s
Support the Unbalanced Load	Yes	
<b>Efficiency</b>		
Max.Efficiency	97.5%	
CEC Efficiency (PV->AC)	96.8%	

## ▼ Energy Storage Module Specifications

Model	ATG-B-H01-5kWh
Battery Type	LiFePO4
Rated Power	2.5kW
Energy Capacity	5kWh
Usable Capacity	4.9kWh
Scalability	4
Scalable Capacity Range	5~20kWh
Voltage Range	360~500Vdc
Maximum Charge Current	6.94A
Maximum Discharge Current	6.94A/8.3A,10s
Communication Interface	RS485,CAN
Enclosure Type	NEMA type 3R

Contact Us

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