

Single-phase Hybrid Inverter technical specification

Friendly & Flexible

- Support multi-machine parallel connection.
- Compatible with lead-acid or lithium-ion batteries or other battery access.

Grace

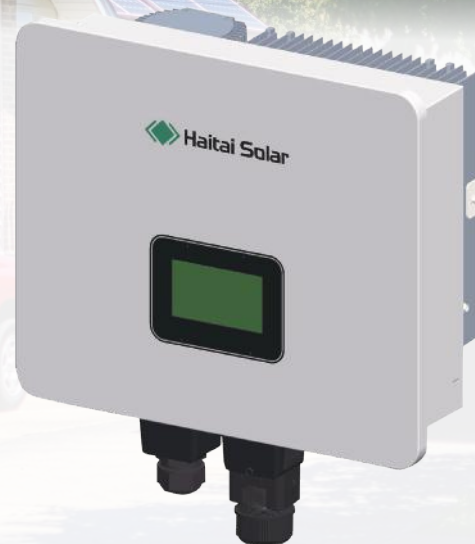
- Fashion appearance, light weight, smart operation.
- Natural cooling, low noise.
- IP65, wall mounted design, saving space.

Reliable

- Compatible anti reflux function.
- Battery reverse polarity protection.

Advanced

- Intelligent energy management system for home.
- Power dispatching and demand side response management node.
- Distributed virtual power station



Data Sheet	HTDESS S3.0K G2	HTDESS S4.0K G2	HTDESS S5.0K G2	HTDESS S6.0K G2
DC Input				
Max. Input Power (kW)	4.5	6	7.5	9
Start-up Voltage (V)	100			
Max. PV Voltage(V)	550			
MPPT Range/Nominal (V)	80~500/360			
Max. Input Current(A)	16			
NO. of MPPT Trackers	2			
AC output				
Rated Power (kW)	3	4	5	6
Max. Apparent Power Output to Grid(kVA)	3.3	4.4	5	6.6
Nominal Voltage/Range(V)	230 /176~270			
Frequency (Hz)	50 /60			
Power Factor	0.8 lagging-0.8 leading			
THDi	<3%			
AC Output Topology	L+N+PE			

Single-phase Hybrid Inverter technical specification

Battery				
Battery Voltage Range(V)	51.2/40~58			
Max. Charging Voltage(V)	58			
Max. Charge/Discharge Current(A)	60/60	80/80	100/100	120/120
Communication Interface	CAN			
Battery Type	Lithium / Lead-acid			
EPS output				
Rated Power (kW)	3	4	5	6
Rated Voltage(V)	220/230V			
Max. Output Current(A)	14.3	19.1	21.7	28.7
Rated Frequency(Hz)	50/60			
Automatic Switching Time(ms)	<10ms			
THDu	<2%			
Overload Capacity	110%,60S/120%,30S/150%.10S			
General data				
Battery Charge /Discharge Efficiency	96%			
DC Max. Efficiency	98%			
Europe Efficiency	97%			
MPPT Efficiency	99.90%			
Ingress Protection	IP65			
Noise Emission(dB)	<35			
Operation Temperature (°C)	-25~60			
Cooling	Natural			
Relative Humidity	0 ~95% (non-condensing)			
Altitude	4,000m(>2,000 Derating)			
Dimensions W × D × H(mm)	451×200×474			
Weight(kg)	18			
Inverter Topology	transformerless			
Self-consumption(W)	<3			
Display & communication				
Display	LCD LED			
Interface:RS485/Wifi/4G/CAN/DRM	RS485/Wifi/4G/CAN/DRM Opt			
Certification				
EMC	IEC/EN 61000-6-1:2019, IEC/EN 61000-6-2:2019, IEC/EN 61000-6-3:2021, IEN/EN 61000-6-4:2019, IEC/EN 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021, IEC/EN 61000-3-11:2019, EN 61000-3-12:2011			
On-grid	Europe: EN 50549-1:2019/AC:2019, Germany:VDE-AR-N 4105:2018 / DIN VDE V 0124-100(VDE V 0124-100):2020, UK:G98/G99/1-6:2022, Hungary:EN50549-1:2019/RFG:2016/Hungary, Italy CEI 0-21, Poland:EN50549-1/Rfg:2016/NC Rfg:2018/PTPIREE:2021 ,IEC:IEC61727&IEC62116&IEC61683			
Safety standard	IEC/EN62109-1:2010, IEC/EN62109-2:2011			

Stackable Home Energy Storage

With its modular design, the Multi-function energy storage system offers endless possibilities. Customize the system to meet your specific needs by easily adding or removing energy storage units, Experience the freedom and control of managing your energy consumption with this state of the art system.



High capacity



Scalable Design



Efficient Performance



Safe and Reliable



Real-time Monitoring



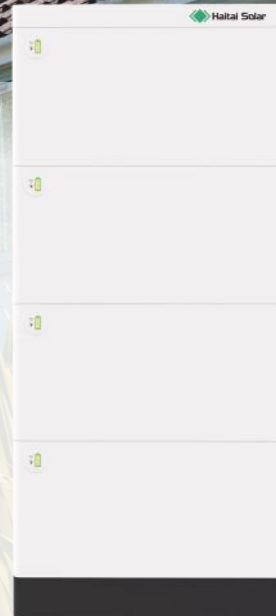
low voltage



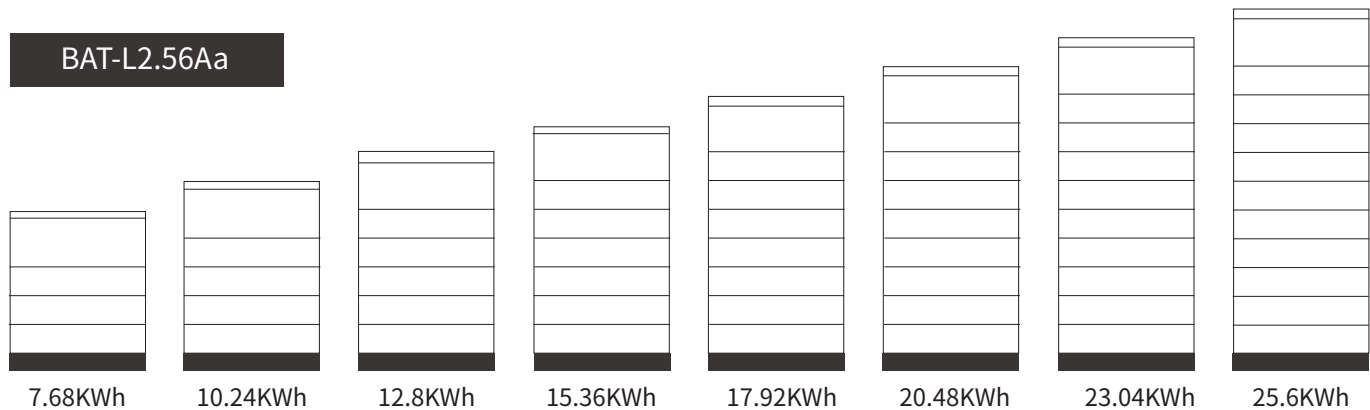
Intelligent BMS



Seamless Integration

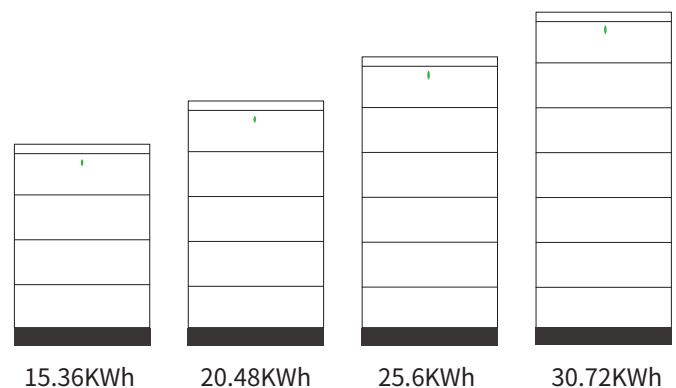


BAT-L2.56Aa



BAT-L5.12Aa

- Higher Conversion Efficiency
- Increased Independence from the Grid
- Better Suitable for Peaking Applications
- Greater Flexibility
- Lower Cost, Larger System
- Faster Charging and Discharging
- Energy Savings



Stackable Home Energy Storage

Model	HTDESS LP 2.56 D1	HTDESS LP 5.12 D1
Rated Voltage(Vdc)	51.2	51.2
Nominal Capacity(Wh)	2560	5120
Working Voltage Range(Vdc)	44.8-56.16	44.8-56.16
Charge Voltage(Vdc)	58.4	58.4
Nominal Charge / Discharge Current(A)	25	50
Max.Charge/Discharge Current(A)	50	100
Peak Current(A)	100@3sec	200@3sec
Parallel Connection	<10pcs	<6pcs
Cycle Life	6000@80% DOD,25°C /0.5C	
Structure		
Dimension(mm)	600*210*180	600*210*300
Weigh (kg)	29	50.5
Ingress Protection	IP65	
installation	Stacket	
Working Enviroment		
Charge Working Temperature °C	0~55	
Discharge Working Temperature °C	-20~60	
Aititude M	<2500	
Humidity (RH)	5~95%(W/O condensing)	
Communication		
Communication Port	485 CAN	
display	SOC status indicator LED indicator	
Certification		
CE, IEC62619, CE-EMC, CE-GPSD, UKCA, UN38.3, MSDS		



Three-phase Hybrid Inverter technical specification

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Data Sheet	HTDESS T6.0K G1	HTDESS T8.0K G1	HTDESS T10K G1	HTDESS T12K G1	HTDESS T15K G1
DC Input					
Max. PV Input Power (kW)	9	12	15	18	22.5
Start-up Voltage (V)	200				
Max. PV Voltage(V)	1000				
MPPT Range/Nominal (V)	180~850/600				
Max. Input Current(A)	16				
NO. of MPPT Trackers	2				
AC output					
Rated Power (kW)	6	8	10	12	15
Max. Apparent Power Output to Grid(kVA)	6.6	8.8	11	13.2	16.5
Nominal Voltage/Range(V)	400 /340~460				
Frequency (Hz)	50 /60				
Power Factor	0.8 lagging-0.8 leading				
THDi	<3%				
AC Output Topology	3W+N+PE				

Three-phase Hybrid Inverter technical specification

Battery					
Battery Voltage Range(V)	360/125-550				
Max. Charging Voltage(V)	600				
Max. Charge/Discharge Current(A)	50				
Communication Interface	CAN				
Battery Type	Lithium / Lead-acid				
EPS output					
Rated Power (kW)	6	8	10	12	15
Rated Voltage(V)	380/400V				
Max. Output Current(A)	9.5	12.7	15.9	21.7	28.7
Rated Frequency(Hz)	50/60				
Automatic Switching Time(ms)	<10ms				
THDu	<2%				
Overload Capacity	110%, 60S/120%, 30S/150%.				
General data					
Battery Charge /Discharge Efficiency	97.5%	97.5%	97.5%	97.5%	97.8%
DC Max. Efficiency	97.9%	97.9%	98.2%	98.2%	98.5%
Europe Efficiency	97.2%	97.5%	97.5%	97.6%	97.8%
MPPT Efficiency	99.9%				
Ingress Protection	IP65				
Noise Emission(dB)	<35				
Operation Temperature (°C)	-25~60				
Cooling	Natural				
Relative Humidity	0 ~95% (non-condensing)				
Altitude	4,000m(>2,000 Derating)				
Dimensions W × D × H(mm)	596*566*220				
Weight(kg)	30	31	31	33	34
Inverter Topology	transformerless				
Self-consumption(W)	<3				
Display & communication					
Display	LCD LED				
Interface:RS485/Wifi/4G/CAN/DRM	RS485/Wifi/4G/CAN/DRM Opt				
Certification					
EMC	IEC/EN 61000-6-1:2019, IEC/EN 61000-6-2:2019, IEC/EN 61000-6-3:2021, IEN/EN 61000-6-4:2019, IEC/EN 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021, IEC/EN 61000-3-11:2019, EN 61000-3-12:2011				
On-grid	Europe: EN 50549-1:2019/AC:2019, Poland:EN50549-1:2019/Rfg:2016/NC Rfg:2018/PTPiREE:2021, Germany:VDE-AR-N 4105:2018 /DIN VDE V 0124-100(VDE V 0124-100):2020, South Africa:NRS 097-2-1:2017 Edition 2.1, UK:G98/G99/1-6:2022, Spain:UNE217001:2020 /UNE217002:2020/NTS V2.1:2021-07, IEC61727:2004/IEC62116:2014/IEC61683:1999,Hungary:EN50549-1:2019/RFG:2016/Hungary, Italy CEI 0-21				
Safety standard	IEC/EN62109-1:2010, IEC/EN62109-2:2011				



HV Stackable Series

Power up your energy storage game with compact size, lightweight design, and effortless installation of standardized modules, leveraging the advantages of high voltage. Effortlessly customize battery combinations to meet your energy storage needs.



High capacity



Scalable Design



Efficient Performance



Safe and Reliable



Real-time Monitoring



High Voltage

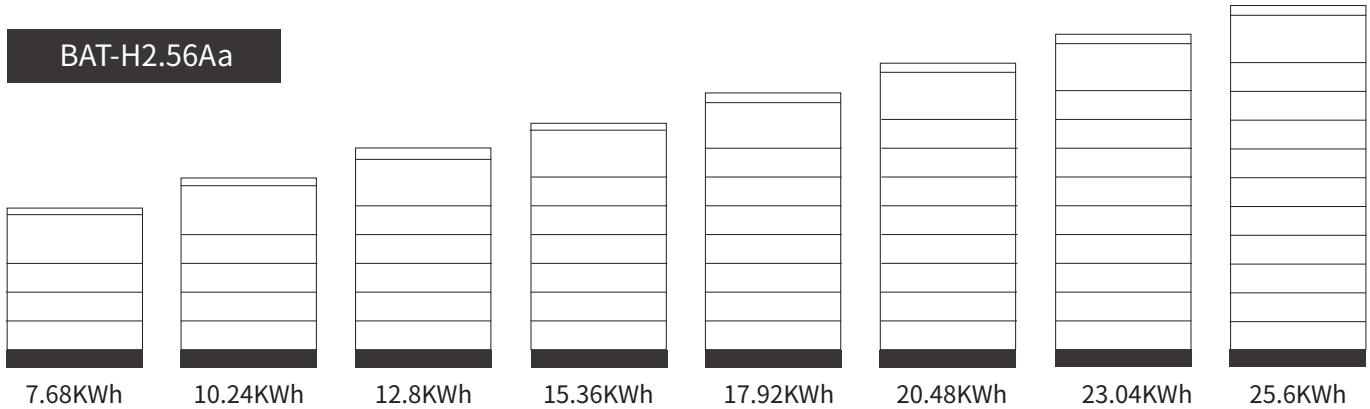


Intelligent BMS



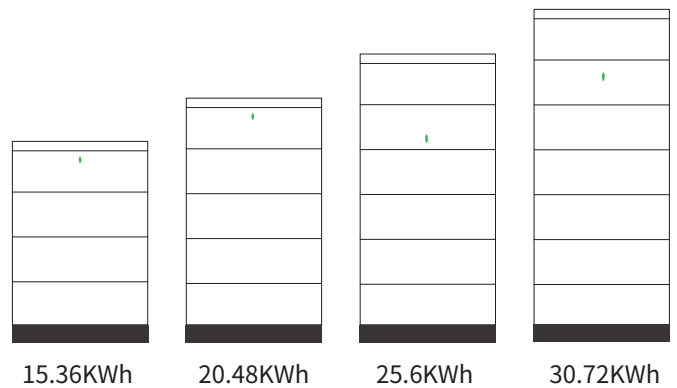
Seamless Integration

BAT-H2.56Aa



BAT-H5.12Aa

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HV Stackable Series

Model	HTDESS HP 2.56 D1	HTDESS HP 5.12 D1
Rated Voltage(Vdc)	51.2	51.2
Nominal Capacity(Wh)	2560	5120
Working Voltage Range(Vdc)	129.6-516.6	129.6-350.4
Charge Voltage(Vdc)	58.4	58.4
Nominal Charge / Discharge Current(A)	25	50
Max.Charge/Discharge Current(A)	50	100
Peak Current(A)	100@3sec	200@3sec
Parallel Connection	<10pcs	<6pcs
Cycle Life	6000@80% DOD,25°C /0.5C	
Structure		
Power Module Dimension(mm) Weigh (kg)	600*210*250/14	610*225*250/15
Battery Module Dimension(mm) Weigh (kg)	600*210*160/27	610*225*250/52
Lampstand Module Dimension(mm) Weigh (kg)	610*225*90/5	610*225*90/5.5
Top Cap Module Dimension(mm) Weigh (kg)	600*210*50/2.5	610*225*50/3
Ingress Protection	IP65	
installation	Stacket	
Working Enviroment		
Charge Working Temperature °C	0~55	
Discharge Working Temperature °C	-20~60	
Aititude M	<2500	
Humidity (RH)	5~95%(W/O condensing)	
Communication		
Communication Port	485 CAN	
display	SOC status indicator LED indicator	
Certification		
CB, IEC62619, CE -EMC, CE-GPSD, UKCA, UL1973, UL9540A, IEC62040, UN38.3, MSDS		