

Single-Phase Hybrid Inverter

Technical Specification

HTDESS S3.0/4.0/5.0/6.0K G2



Product Features

Friendly & Flexible

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

Advanced

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

Reliable

- Compatible anti reflux function
- Battery reverse polarity protection

Grace

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

Specifications

Parameter	HTDESS S3.0K G2	HTDESS S4.0K G2	HTDESS S5.0K G2	HTDESS S6.0K G2
DC Input				
Max. Input Power	4.5kW	6kW	7.5kW	9kW
Start-up Voltage	100V			
Max. PV Voltage	550V			
MPPT Range/Nominal	80~500/360V			
Max. Input Current	16A			
NO. of MPPT Trackers	2			
AC output				
Rated Power	3kW	4kW	5kW	6kW
Max. Apparent Power Output to Grid	3.3kWA	4.4kWA	5kWA	6.6kWA
Nominal Voltage/Range	230 / 176~270V			
Frequency	50/60Hz			
Power Factor	1 (0.8 lead ~ 0.8 lag)			
THDi	<3%			
AC Output Topology	L+N+PE			

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Battery				
Battery Voltage Range	51.2 / 40~58V			
Max. Charging Voltage	58V			
Max. Charge/Discharge Current	60/60A	80/80A	100/100A	100/120A
Communication Interface	CAN/RS485			
Battery Type	Lithium / Lead-acid			
EPS output				
Rated Power	3kW	4kW	5kW	6kW
Rated Voltage	220/230V			
Max. Output Current	14.3A	19.1A	21.7A	28.7A
Rated Frequency	50/60Hz			
Automatic Switching Time	<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	<35dB			
Operation Temperature	-25~60℃			
Cooling	自然冷却			
Relative Humidity	0 ~95% RH (non-condensing)			
Altitude	4,000m(>2,000m Derating)			
Dimensions W × D × H	451×200×474mm			
Weight	18kg			
Inverter Topology	Transformerless			
Self-consumption	<3W			
Display & communication				
Display	LCD			
Interface	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 IEC/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 , IEC/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:EN 50549-1:2019/RFG:2016/Hungaru , Italy CEI 0-21 Poland:EN 50549-1/Rfg:2016/NC Rfg:2018/PTPIREE:2021 , IEC:IEC 61727 & IEC 62116 & IEC 61683			
Safety standard	IEC/EN 62109-1:2010 , IEC/EN 62109-2:2011			