



Three-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 T6.0K G1	HTDESS T8.0K G1	HTDESS T10K G1	HTDESS T12K G1	HTDESS T15K G1
DC Input					
Max. Input Power (kW)	6	8	10	12	15
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				

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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				