Haitai Solar

# Three-Phase Hybrid Inverter Technical Specifiction

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 apperance, light weight, smart operation

·Natural cooling,low noise

·IP65,wall mounted design,saving space

## Specifications

| Parameter | HTDESS T6.0K G1 | HTDESS T8.0K G1 | HTDESS T10K G1 | HTDESS T12K G1 | HTDESS T15K G1 |
|---|---|---|---|---|---|
| DC Input | | | | | |
| Max. Input Power | 9kW | 12kW | 15kW | 18kW | 22.5kW |
| Start-up Voltage | 200V | | | | |
| Max. PV Voltage | 1000V | | | | |
| MPPT Range/Nominal | 180~850/600V | | | | |
| Max. Input Current | 16A | | | | 25A |
| NO. of MPPT Trackers | 2 | | | | |
| AC output | | | | | |
| Rated Power | 6kW | 8kW | 10kW | 12kW | 15kW |
| Max. Apparent Power Output to Grid | 6.6kWA | 8.8kWA | 11kWA | 13.2kWA | 16.5kWA |
| Nominal Voltage/Range | 380 , 400 / 340~460V | | | | |
| 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 | 360 / 125~550V | | | | |
| Max. Charging Voltage | 600V | | | | |
| Max. Charge/Discharge Current | 50A | | | | |
| Communication Interface | CAN | | | | |
| Battery Type | Lithium / Lead-acid | | | | |
| EPS output | | | | | |
| Rated Power | 6kW | 8kW | 10kW | 12kW | 15kW |
| Rated Voltage | 380/400V | | | | |
| Max. Output Current | 9.5A | 12.7A | 15.9A | 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 | 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 | 99.90% | | | | |
| Ingress Protection | IP65 | | | | |
| Noise Emission | <35dB | | | | |
| Operation Temperature | -25~60℃ | | | | |
| Cooling | Natural | | | | |
| Relative Humidity | 0 ~95% RH (non-condensing) | | | | |
| Altitude | 4,000m(>2,000m Derating) | | | | |
| Dimensions W × D × H | 566×220×596mm | | | | |
| Weight | 30kg | 31kg | 31kg | 31kg | 31kg |
| Inverter Topology | Transformerless | | | | |
| Self-consumption | <3W | | | | |
| Display & communication | | | | | |
| HIMI | LCD/APP | | EMS/Meter | | RS485/RS485 |
| BMS | CAN | | Supported communication interface | | WIFI/GPRS |
| Certification | | | | | |
| EMC | IEC/EN 61000-6-1:2019 , IEC/EN 61000-6-2:2019 , IEC/EN 61000-6-3:2021<br>IEC/EN 61000-6-4:2019 , IEC/EN 61000-3-2:2019/A1:2021 , EN 61000-3-3:2013/A2:2021<br>IEC/EN 61000-3-11:2019 , IEC/EN 61000-3-12:2011 | | | | |
| On-grid | Europe: EN 50549-1:2019/AC:2019 , South Africa:NRS 097-2-1:2017 Edition 2.1<br>Germany: VDE-AR-N 4105:2018/DIN VDE V 0124-100(VDE V 0124-100):2020<br>UK:G98/G99/1-6:2022 , Hungary:EN 50549-1:2019/RFG:2016/Hungaru , Italy CEI 0-21<br>Poland:EN 50549-1/Rfg:2016/NC Rfg:2018/PTPiREE:2021 , Spain:UNE 217001:2020/UNE 217002:2020/NTS V2.1:2021-07 , IEC 61727:2004/IEC 62116:2014/IEC 61683:1999 | | | | |
| Safety standard | IEC/EN 62109-1:2010 , IEC/EN 62109-2:2011 | | | | |


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