

# HT-A

HT series with the power capacity of 6/8/10/12/15kW is Dyness three-phase high-voltage hybrid inverter. It can be flexibly configured according to different needs, effectively increasing the self-consumption rate. HT inverter helps reduce the electricity bills. It supports three phase unbalanced output with max. output up to 50% Pn per phase, extending the application scenarios. This product also supports max 200% overload output and UPS switching of less than 10ms, ensuring a seamless switching experience when the grid fails.



CT phase sequence  
self-correcting



Energy can transfer  
between phases  
replacing shutdown



Three phase balance  
& unbalance output



Support Modbus  
TCP/RTU & Sunspec  
protocols



Remote cloud parameter  
settings avoid installers  
back to site



High precision zero  
export control

| Model                              | D6K-HT-A                                   | D8K-HT-A         | D10K-HT-A        | D12K-HT-A        | D15K-HT-A        |
|------------------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|
| Battery Input Data                 |                                            |                  |                  |                  |                  |
| Battery Type                       | lithium battery                            |                  |                  |                  |                  |
| Battery Voltage Range (V)          | 120-750                                    |                  |                  |                  |                  |
| Nominal Battery Voltage (V)        | 600                                        | 600              | 600              | 600              | 600              |
| Max.Charge/Discharge Current(A)    | 40/40                                      | 40/40            | 40/40            | 40/40            | 40/40            |
| Max.Charge/Discharge Power(W)      | 9000/6600                                  | 12000/8800       | 15000/11000      | 18000/13200      | 22500/16500      |
| PV String Input Data               |                                            |                  |                  |                  |                  |
| Max.PV Input Power (W)             | 12000                                      | 16000            | 20000            | 24000            | 30000            |
| Max.PV Input Voltage (V)           | 1000                                       |                  |                  |                  |                  |
| Working Voltage Range(V)           | 100-950                                    |                  |                  |                  |                  |
| First Feed-in Voltage (V)          | 120                                        |                  |                  |                  |                  |
| MPPT Range For Nominal Power (V)   | 200~850                                    | 250~850          | 250~850          | 250~850          | 300~850          |
| Nominal PV Input Voltage (V)       | 750                                        |                  |                  |                  |                  |
| Max.Input Current(A)               | 20                                         | 20               | 20               | 20               | 20               |
| Max.Short Current(A)               | 30                                         | 30               | 30               | 30               | 30               |
| No.of MPP Trackers                 | 2                                          | 2                | 3                | 3                | 3                |
| Strings per MPP Tracker            | 1                                          | 1                | 1                | 1                | 1                |
| AC Output Data (On-grid Port)      |                                            |                  |                  |                  |                  |
| Nominal Power Output To Grid (VA)  | 6000                                       | 8000             | 10000            | 12000            | 15000            |
| Max.Power Output To Grid (VA) *    | 6000                                       | 8000             | 10000            | 12000            | 15000            |
| Max.Power From Grid (VA)           | 12000                                      | 16000            | 20000            | 20000            | 20000            |
| Nominal Output Voltage (V)         | 380/400,3L/N/PE                            |                  |                  |                  |                  |
| Nominal Output Frequency (Hz)      | 50/60                                      |                  |                  |                  |                  |
| Nominal AC Current To Grid (A)     | 9.1                                        | 12.1             | 15.2             | 18.2             | 22.7             |
| Max.AC Current To Grid (A)         | 9.1                                        | 12.1             | 15.2             | 18.2             | 22.7             |
| Max.AC Current From Grid (A)       | 15.7                                       | 21               | 26.1             | 26.1             | 26.1             |
| Output Power Factor                | Adjustable from 0.8 leading to 0.8 lagging |                  |                  |                  |                  |
| Output THDi (Nominal Power)        | <3%                                        |                  |                  |                  |                  |
| Three Phase Unbalance              | YES                                        |                  |                  |                  |                  |
| AC Output Data (Back-up Port)      |                                            |                  |                  |                  |                  |
| Max.Continuous Output Power(VA)    | 6000                                       | 8000             | 10000            | 12000            | 15000            |
| Peak Output Power(VA)**            | 12000 @1min                                | 16000 @1min      | 18000 @1min      | 18000 @1min      | 18000 @1min      |
| Max.Output Current (A)***          | 13.6(17.4 @1min)                           | 18.2(23.2 @1min) | 22.7(26.1 @1min) | 22.7(26.1 @1min) | 22.7(26.1 @1min) |
| Nominal Output Voltage (Vac)       | 220/380,230/400,3L/N/PE                    |                  |                  |                  |                  |
| Nominal Output Frequency (Hz)      | 50/60                                      |                  |                  |                  |                  |
| Output THDv (@Linear Load)         | <3%                                        |                  |                  |                  |                  |
| Switch time                        | <10ms                                      |                  |                  |                  |                  |
| Efficiency                         |                                            |                  |                  |                  |                  |
| Max.efficiency                     | 98.10%                                     | 98.10%           | 98.20%           | 98.20%           | 98.20%           |
| Euro.efficiency                    | 97.30%                                     | 97.30%           | 97.60%           | 97.60%           | 97.60%           |
| Protection                         |                                            |                  |                  |                  |                  |
| Anti-island Protection             | Integrated                                 |                  |                  |                  |                  |
| PV Insulation Resistance Detection | Integrated                                 |                  |                  |                  |                  |
| PV Reverse Protection              | Integrated                                 |                  |                  |                  |                  |
| Battery Reverse Protection         | Integrated                                 |                  |                  |                  |                  |
| Residual Current Monitoring Unit   | Integrated                                 |                  |                  |                  |                  |
| AC Over Current/Voltage Protection | Integrated                                 |                  |                  |                  |                  |
| DC Switch(PV)                      | Integrated                                 |                  |                  |                  |                  |
| Surge Protection                   | DC Typell/AC Typelll                       |                  |                  |                  |                  |
| Communication Interface            |                                            |                  |                  |                  |                  |
| Battery BMS                        | CAN                                        |                  |                  |                  |                  |
| EMS (Modbus)                       | RS485                                      |                  |                  |                  |                  |
| Meter(Outside)                     | RS485                                      |                  |                  |                  |                  |
| RCR/DRED                           | YES(DI)                                    |                  |                  |                  |                  |
| Remote Shut Down                   | YES(DI)                                    |                  |                  |                  |                  |
| Dry-Point                          | YES(DO)                                    |                  |                  |                  |                  |
| Cloud                              | Wi-Fi,LAN                                  |                  |                  |                  |                  |
| Display/User Interface             | LED/LCD/APP                                |                  |                  |                  |                  |
| General Data                       |                                            |                  |                  |                  |                  |
| Operating Temperature Range(°C)    | -30-60                                     |                  |                  |                  |                  |
| Relative Humidity(%)               | 0-100%                                     |                  |                  |                  |                  |
| Operating Altitude(m)              | ≤4000                                      |                  |                  |                  |                  |
| Cooling                            | Smart Fan Cooling                          |                  |                  |                  |                  |
| Noise(dB)                          | < 40                                       |                  |                  | < 45             |                  |
| Weight(kg)                         | 27.3                                       |                  |                  |                  |                  |
| Size(W/H/D)(mm)                    | 500*616*212                                |                  |                  |                  |                  |
| Installation                       | Wall-Mounted                               |                  |                  |                  |                  |
| Protection Degree                  | IP66                                       |                  |                  |                  |                  |
| Certifications&Standards           |                                            |                  |                  |                  |                  |
| Grid Regulation                    | EN50549,NRS097,G98,G99,IEC61727,IEC62116   |                  |                  |                  |                  |
| Safety Regulation                  | IEC/EN62109-1&2                            |                  |                  |                  |                  |
| EMC                                | IEC/EN61000-6-1/2/3/4                      |                  |                  |                  |                  |

