

HT-A

HT-A series with the power capacity of 5kW is Dyness three-phase high-voltage hybrid inverter. It can be flexibly configured according to different needs, effectively increasing the self-consumption rate. HT-A 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	D5K-HT-A
Battery Input Data	
Battery Type	lithium battery
Battery Voltage Range (V)	120-750
Nominal Battery Voltage (V)	600
Max.Charge/Discharge Current(A)	40/40
Max.Charge/Discharge Power(W)	7500/5000
PV String Input Data	
Max.PV Input Power (W)	10000
Max.PV Input Voltage (V)	1000
Working Voltage Range(V)	80-950
First Feed-in Voltage (V)	100
Nominal PV Input Voltage (V)	750
Max.Input Current(A)	20
Max.Short Current(A)	30
No.of MPP Trackers	2
Strings per MPP Tracker	1
AC Output Data (On-grid Port)	
Nominal Power Output To Grid (VA)	5000
Max.Power Output To Grid (VA)	5000
Max.Power From Grid (VA)	10000
Nominal Output Voltage (V)	400/380,3L/N/PE
Nominal Output Frequency (Hz)	50/60
Nominal AC Current To Grid (A)	7.6
Max.AC Current To Grid (A)	7.6
Max.AC Current From Grid (A)	15.2
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)	5000
Peak Output Power(VA)	10000 @1min
Max.Output Current (A)	"11.4(14.5 @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	98.00%
Euro. efficiency	97.20%
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 Type II /AC Type III
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)	≤3000
Cooling	Smart Fan Cooling
Noise(dB)	<40
Weight(kg)	27.2
Size(W/H/D)(mm)	500*585*212
Installation	Wall-Mounted
Protection Degree	IP66
Certifications&Standards	
Grid Regulation	EN 50549-1
Safety Regulation	IEC/EN 62109-1&2
EMC	IEC/EN 61000-6-1/2/3/4

