

HT-A

HT-A 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-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	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)	80-950				
First Feed-in Voltage (V)	100				
Nominal PV Input Voltage (V)	750				
Max.Input Currrent(A)	20	20	20	20	20
Max.Short Currrent(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)	400/380,3L/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.Continous 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 TypeII/AC TypeIII				
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(℃)	-30-60				
Relative Humidity(%)	0-100%				
Operating Altitude(m)	≤3000				
Cooling	Smart Fan Cooling				
Noise(dB)	<40			<45	
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, CEI 0-21,AS 4777.2,UNE217001,UNE217002,NTS Type A				
Safety Regulation	IEC/EN 62109-1&2				
EMC	IEC/EN 61000-6-1/2/3/4				