

HOUSEHOLD ENERGY STORAGE SYSTEM

Three phase hybrid inverter



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10-20kW

Voltage Range (150-800V)

Support Unbalance Load

1.5 Times PV Oversize

Support Sodium
metal chloride battery

Support Generator

String Current Up To 40A

Three phase hybrid inverter



PV Input	HF10K-T	HF12K-T	HF15K-T	HF17K-T	HF20K-T
Max. DC Input Power (kW)	15	18	22.5	25.5	30
Rated DC Input Voltage (V)	620				
DC Input Voltage Range (V)	150-1000				
MPPT Voltage Range (V)	150-850				
Start-up Voltage (V)	160				
Max. DC Input Current (A)	20×2		20 + 32	32 × 2	
No. of MPPT Tracker	2				
Battery Port					
Battery Nominal Voltage (V)	400	450	500	600	700
Battery Voltage Range (V)	150-800				
Max. Charge/Discharge Current (A)	30				
Max. Charge/Discharge Power (kW)	11k/10k	13.2k/12k	16.5k/15k	18.7k/17k	22k/20k
Charging Curve	3 Stages				
Compatible Battery Type	Li-ion/Lead-acid				
AC Grid Output					
Nominal AC Output Power (kW)	10000	12000	15000	17000	20000
Max. AC Input/Output Power (kVA)	15000	18000	22500	25500	30000
Max. AC Output Current (A)	17	21.5	27	30	32
Nominal AC Voltage (V)	230/400				
Nominal AC Frenquency (Hz)	50/60				
Power Factor	1 (-0.8 ~ +0.8)				
Current THD (%)	< 3%				
AC Load Output (Back-up)	HF10K-T	HF12K-T	HF15K-T	HF17K-T	HF20K-T
Nominal Output Power (VA)	10000	12000	15000	17000	20000
Nominal Output Voltage (V)	230/400				
Nominal Output Frequency (Hz)	50/60				
Nominal Output Current (A)	14.5	17.4	21.8	24.8	29
Peak Output Power	11000VA, 60S	13200VA, 60S	16500VA, 60S	18700VA, 60S	22000VA, 60S
THDV (with linear load)	< 3%				
Switching Time (ms)	< 0.01S				
Efficiency	HF10K-T	HF12K-T	HF15K-T	HF17K-T	HF20K-T
Europe Efficiency	97.5%				
Max. Efficiency	98.2%	98.3%			
Battery Charge/Discharge Efficiency	98%				
Protection					
Reverse Polarity Protection	Yes				
Over Current / Voltage Protection	Yes				
Anti-islanding Protection	Yes				
AC Short-circuit Protection	Yes				
Leakage Current Detection	Yes				
Ground Fault Monitoring	Yes				
Grid Monitoring	Yes				
Enclosure Protect Level	IP65/NEMA9X	IP65/NEMA10X	IP65/NEMA11X	IP65/NEMA12X	IP65/NEMA13X
General Data	HF10K-T	HF12K-T	HF15K-T	HF17K-T	HF20K-T
Dimensions (W x H x D, mm)	558 × 426 × 250 mm				
Weight (kg)	28.5kg				
Topology	Transformerless				
Cooling Concept	Intelligent Fan				
Relatively Humidity	0-100%				
Operating Temperature Range (°C)	-25 to 60 °C				
Operating Altitude (m)	< 4000				
Noise Emission (dB)	< 30		< 40		
Standby Consumption (W)	< 5				
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G				
Certification & Approvals	NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2				
EMC	EN61000-6-2, EN6100-6-3				