

Storage³

HFT³ PRO

5-12KP
THREE PHASE HYBRID



▶ Peak Efficiency
98.2 %

📦 Max. DC Overload
200 %

🗨️ Aluminum Alloy
Die Casting

😊 MES + FCT + CRM
Infrastructure

⚙️ Easy to Install and
Service

🗨️ Energy
Management

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EN 20260410

MODEL	HHT-5000P	HHT-6000P	HHT-8000P	HHT-10000P	HHT-12000P
PV INPUT DATA					
Max. PV Power / W	10000	12000	16000	20000	24000
Max. Input Voltage / V	1000				
Min. DC Voltage / Start up Voltage / V	100/145				
Normal Input Voltage / V	620				
MPP Voltage Range / V	150-900				
Max. Input Current / A	20/20				
Max. Short Current / A	30/30				
No. of MPP Trackers	2				
No. Strings Per MPPT Tracker	1/1				
BATTERY INPUT DATA					
Battery Type	Li-ion				
Input Voltage Range / V	160-800				
Max. Charging / Discharging Current / A	40/40				
AC OUTPUT/ INPUT DATA					
Rated AC Power / W	5000	6000	8000	10000	12000
Max. Apparent AC Power / VA	5500	6600	8800	11000	13200
Rated Active Power From Grid / W	10000	12000	16000	20000	24000
Max. Apparent AC Power From Grid / VA	10000	12000	16000	20000	24000
Rated Grid Voltage (AC Voltage Range) / V	380/400,3W/N/PE				
Rated Grid Frequency / Hz	50/60				
Max. AC Output Current / A	8.5	10.0	13.5	16.0	20.0
Max. AC Current From Grid / A	17.0	20.0	23.0	29.0	35.0
Displacement Power Factor	0.8ind-0.8cap				
Total Harmonic Distortion (THDi, Rated Power)	<3%				
Grid Connection	3W/N/PE				
AC OUTPUT DATA (BACK-UP)					
Normal AC Output Power / W	5000	6000	8000	10000	12000
Peak Apparent Output Power / VA @10S	10000	12000	16000	20000	24000
Nominal Output Voltage / V	380/400	380/400	380/400	380/400	380/400
Nominal Output Frequency / Hz	50/60	50/60	50/60	50/60	50/60
Max. Output Current / A	8.5	10.0	13.5	16.0	20.0
Peak Output Current / A	17.0	20.0	23.0	29.0	35.0
Switch Time / ms	<10				
THDV (@line load)	<3%				
AC INPUT DATA (Generator)					
Max. Input Power /W	5000	6000	8000	10000	12000
Rated Input Current /A	8.5	10.0	13.5	16.0	20.0
Rated Input Frequency /Hz	50/60				
EFFICIENCY					
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Max. Efficiency	98.0%	98.0%	98.2%	98.2%	98.2%
Euro Efficiency	97.3%	97.3%	97.4%	97.4%	97.4%
Charged Efficiency@PV-Battery	98.5%	98.5%	98.5%	98.5%	98.5%
Charged / Discharged Efficiency@Battery->Grid / Load	97.6%	97.6%	97.6%	97.6%	97.6%
PROTECTION FUNCTION					
Anti-Islanding Protection	Integrated	Insulation Resistance Detection	Integrated	Output Short Protection	Integrated
Battery Reverse Protection	Integrated	Residual Current Monitoring Unit	Integrated	Over Voltage Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated	Output Over Current Protection	Integrated	Surge Protection	DC Type II / AC Type II
				AFCI	Integrated
GENERAL DATA					
Dimensions (W*H*D) / mm	455*350*200	AC Connection Type	Plug-in Connector	Relative Humidity / %	0-100
Weight / kg	28	Communication with Cloud	Wi-Fi/4G/LAN(opt)	Max. Operating Altitude / m	2000 (>2000 Derating)
Noise Emission / dBA	25	Communication with BMS	CAN/RS485	Degree of Protection	IP66
User Interface	LED/LCD	Communication with Meter	RS485	Topology	Non-isolated
PV Connection Type	MC4/D4	Cooling Method	Natural	Night Consumption / W	<13
Battery Connection Type	Plug-in	Operating Ambient Temperature / °C	-30 ~ +60		