

Storage³

HHT[®] HV
5-15K
THREE PHASE HYBRID



▶ Peak Efficiency
98.2 %

📦 Max. DC Overload
50 %

🗨️ Aluminum Alloy
Die Casting

💬 MES + FCT + CRM
Infrastructure

⚙️ Easy to Install and
Service

🗨️ Energy
Management

HYPONTECH
HYPON.COM
HYPONTECH SOLAR ENERGIZING FUTURE

EG 20230627

HHT[®]

MODEL	HHT-5000	HHT-6000	HHT-8000	HHT-10000	HHT-12000	HHT-15000				
AC OUTPUT/INPUT										
Rated Power / W	5000	6000	8000	10000	12000	15000				
Max. Apparent Power / VA	5500	6600	8800	11000	13200	16500				
Rated Active Power from Grid / W	10000	12000	15000	15000	18000	20000				
Max. Apparent Power from Grid / VA	11000	13200	16500	16500	20000	22000				
Rated Grid Voltage / V	380/400	380/400	380/400	380/400	380/400	380/400				
Grid Connection	3L-N-PE	3L-N-PE	3L-N-PE	3L-N-PE	3L-N-PE	3L-N-PE				
Rated Grid Frequency / Hz	50/60	50/60	50/60	50/60	50/60	50/60				
Max. Output Current / A	8.5	10.0	13.5	16.0	20.0	24.0				
Max. Current From Grid / A	17.0	20.0	23.0	23.0	29.0	29.0				
Power Factor	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap				
TH Di @ Rated Power	<3%	<3%	<3%	<3%	<3%	<3%				
AC OUTPUT (BACK-UP)										
Rated Output Power / W	5000	6000	8000	10000	12000	12000				
Peak Apparent Output Power / VA	10000	12000	15000	15000	15000	15000				
Rated Output Voltage / V	380/400	380/400	380/400	380/400	380/400	380/400				
Rated Output Frequency / Hz	50/60	50/60	50/60	50/60	50/60	50/60				
Max. Output Current / A	8.5	10.0	13.5	16.0	20.0	20.0				
Auto Switch Time / ms	<10	<10	<10	<10	<10	<10				
THDV@Linear Load	<3%	<3%	<3%	<3%	<3%	<3%				
EFFICIENCY										
Max. Efficiency	98.0%	98.0%	98.2%	98.2%	98.2%	98.5%				
Euro Efficiency	97.3%	97.3%	97.3%	97.4%	97.4%	97.5%				
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%				
Charging Efficiency@ PV-> Battery	98.5%	98.5%	98.5%	98.5%	98.5%	98.5%				
Charging/Discharging Efficiency @ Battery<->Grid/Load	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%				
BATTERY INPUT										
Battery Type	Li-Ion	Max. Charging/Discharging Current / A			25/25					
Battery Voltage Range / V	160-800	Charging Strategy for Li-Ion Battery			Self-adaption to BMS					
PV INPUT										
Max. PV Power / W	HHT-5000	7500	Max. Input Voltage / V	1000	Max. Short Circuit Current / A	HHT-5000 - 12000	20/20			
	HHT-6000	9000		MPP Voltage Range / V		150-850	HHT-15000	40/20		
	HHT-8000	12000		Start Up Voltage / V		145				
	HHT-10000	15000		Rated Input Voltage / V		620				
	HHT-12000	18000		Max. Input Current / A		HHT-5000 - 12000	15/15	No. of MPPTs/	HHT-5000 - 12000	2/ (1/1)
	HHT-15000	22500				HHT-15000	30/15	No. Strings Per MPPT	HHT-15000	2/ (2/1)
PROTECTION FUNCTION										
Anti-Islanding Protection	Integrated	Residual Current Monitoring	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					
Insulation Resistance Detection	Integrated	Output Short Circuit Protection	Integrated	Battery Reverse Polarity Protection	Integrated					
GENERAL DATA										
Dimensions (W*H*D) / mm	425*351*200		AC Connection Type	Plug-in Connector	Operating Ambient Temperature / °C	-25 ~ +60				
Weight / kg	HHT-5000 - 12000		Communication with Cloud	RS485/Wi-Fi/4G/LAN	Relative Humidity / %	0-100				
	HHT-15000			(optional)	CT Connection Type	Plug-in Connector				
Noise Emission (Typical) / dB(A)	40		Communication with BMS	CAN,RS85	Max. Operating Altitude / m	2000 (>2000 Derating)				
User Interface	LED/LCD		Communication with Meter	RS485	Climatic Category (1 EC 60721-3-4)	4K4H				
PV Connection Type	Mc4		Cooling Method	HHT-5000 - 12000 Natural Cooling	Protection Class	IP65	Topology Transformerless			
Battery Connection Type	SUNCLIX			HHT-15000 Smart Cooling Concept	Night Consumption / W	<13				