

Storage³

THREE PHASE HYBRID
5-12K

HYPONTECH

HYPON.COM
© HYPONTECH SOLAR ENERGIZING FUTURE

Hi



Peak Efficiency
98.2 %



Max. DC Overload
50 %



Aluminum Alloy
Die Casting



MES + FCT + CRM
Infrastructure



Easy to
Install and Service



Energy
Management

**MODEL****HHT-5000****HHT-6000****HHT-8000****HHT-10000****HHT-12000****OUTPUT (AC TO GRID)**

Rated Power to grid / W	5000	6000	8000	10000	12000
Max. Apparent AC Power to grid / VA	5500	6600	8800	11000	13200
Max. Apparent AC Power from grid / VA	10000	12000	15000		18000
Rated Grid Voltage / Vac	380/400				
Grid Connection	3 / 3L-N-PE				
Rated Power Frequency / Hz	50/60				
Max. Output Current to grid / A	8.5	10.0	13.5	16.0	20.0
Max. AC Current from grid / A	17	20	23		29
Power Factor	0.8ind to 0.8cap				
THDi @ Rated Power	<3%				

OUTPUT (AC TO LOADS)

Rated Power / W	5000	6000	8000	10000	12000
Peak Apparent Output Power @60° / VA	10000	12000	15000		
Rated Power Frequency / Hz	50/60				
Max. Output Current / A	8.5	10.0	13.5	16.0	20.0
Automatic Switch Time / ms	<10				
Nominal Output Voltage / V	380/400				
Nominal Output Frequency / Hz	50/60				
THDv @ Linear Load	<3%				

EFFICIENCY

PV Max. Efficiency	98.0%	98.2%			
MPPT Efficiency	99.9%				
Euro Efficiency	97.3%		97.4%		
Charging Efficiency (PV-> Battery)	98.5%				
Max. Charging/Discharging Efficiency (Grid/Loads <-> Battery)	97.6%				

BATTERY INPUT DATA

Battery Type	Lithium	Max. Charging/Discharging Current / A	25/25
Battery Voltage Range / V	160-800	Charging Strategy for Li-Ion Battery	Self-adaption to BMS

INPUT / DC

Max. PV Power / Wp	HHT-5000	7500	Max. Input Voltage / V	1000	Max. Input Current / A	16/16
	HHT-6000	9000	MPP Voltage Range / V	150-850	Max. DC Short Circuit Current / A	20/20
	HHT-8000	12000	Min. Input Voltage / V	100	No. of Independent MPPT Inputs	2
	HHT-10000	15000	Start Up Voltage / V	145	No. of PV Strings per MPPT	1/1
	HHT-12000	18000	Nominal DC-Input Voltage / V	620		

PROTECTION FUNCTION

Anti-Islanding Protection	Integrated	Residual Current Monitoring	Integrated	Over Voltage Protection	Integrated
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	II (DC) III (AC)	Battery Reverse Polarity Protection	Integrated

GENERAL DATA

Dimensions (W*H*D) / mm	425*351*200	AC Connection Type	Plug-in Connector	Relative Humidity	0% to 100%
Weight / kg	22	Communication with Cloud	WiFi/4G (optional)	Max. Operating Altitude / m	2000 (>2000 Derating)
Noise Emission (Typical) / dB(A)	<40	Communication with BMS	CAN,RS485	Protection Class (IEC 60529)	IP65
User Interface	LED&LCD	Communication with CT/Meter	RS485	Climatic Category (IEC 60721-3-4)	4K4H
DC Connection Type (PV)	MC4	Cooling Method	Natural Cooling	Topology	Transformerless
DC Connection Type (Battery)	Sunclix	Operating Ambient Temperature / C°	-25 ~ +60	Night Consumption / W	<13