

STORAGE 3
SOLAR SELF SUFFICIENCY

HHT

THREE PHASE HYBRID
5-12K

HYPONTECH
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PV Peak Efficiency
98.2%



Max. DC Overload
50%



Aluminum Alloy Die Casting



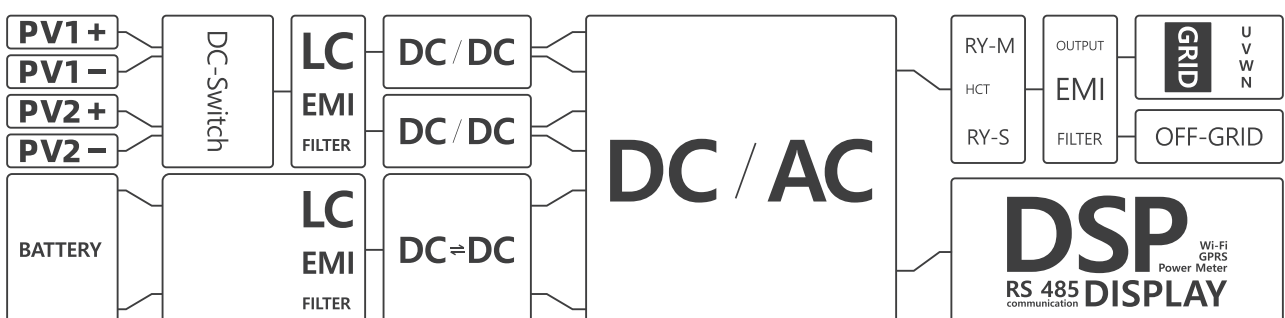
MES + FCT + CRM
Infrastructure



Easy to
Install and Service



Energy
Management



FEATURES

BLOCK DIAGRAM

MODEL	HHT-5000	HHT-6000	HHT-8000	HHT-10000	HHT-12000
BATTERY INPUT DATA					
Battery Type	Lithium				
Battery Voltage Range / V	160-800				
Max. Charging/Discharging Current / A	25/25				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
INPUT / DC					
Max. PV Power / Wp	7500	9000	12000	15000	18000
Max. Input Voltage / V	1000				
MPP Voltage Range / V	150-850				
Min. Input Voltage / V	100				
Start Up Voltage / V	145				
Nominal DC-Input Voltage / V	620				
Max. Input Current / A	15/15				
Max. DC Short Circuit Current / A	20/20				
No. of Independent MPPT Inputs	2				
No. of PV Strings per MPPT	1/1				
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	13.5	16	20
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	13.5	16	
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%				
PROTECTION FUNCTION					
Anti-Islanding Protection	Integrated				
Input Reverse Polarity Protection	Integrated				
Insulation Resistance Detection	Integrated				
Residual Current Monitoring	Integrated				
Output Over Current Protection	Integrated				
Output Short Circuit Protection	II (DC) III (AC)				
Over Voltage Protection	Integrated				
Surge Protection	DC: Type II / AC: Type II				
Battery Reverse Polarity Protection	Integrated				
GENERAL DATA					
Dimensions (W*H*D) / mm	425*351*200				
Weight / kg	22				
Noise Emission (Typical) / dB(A)	<40				
User Interface	LED&LCD				
DC Connection Type (PV)	MC4				
DC Connection Type (Battery)	Sunclix				
AC Connection Type	Plug-in Connector				
Communication with Cloud	WiFi/4G (optional)				
Communication with BMS	CAN,RS85				
Communication with CT/Meter	RS485				
Cooling Method	Natural Cooling				
Operating Ambient Temperature / Å	-25 ~ +60				
Relative Humidity	0% to 100%				
Max. Operating Altitude / m	2000 (>2000 Derating)				
Protection Class (IEC 60529)	IP65				
Climatic Category (IEC 60721-3-4)	4K4H				
Topology	Transformerless				
Night Consumption / W	<13				