

# HYTH **5000-15000**

THREE PHASE HYBRID INVERTER



Peak Efficiency  
**98.2 %**



Max. DC Overload  
**50 %**



Aluminum Alloy  
Die Casting



MES + FCT + CRM  
Infrastructure



Easy to Install and  
Service



Energy  
Management

**Certification & Approvals:** CE/IEC LVD、CE/IEC EMC、TUV Mark 、 EN50549

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# HYTH

## MODEL

HYTH-5000 HYTH-6000 HYTH-8000 HYTH-10000 HYTH-12000 HYTH-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	18000		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 (optional)	Relative Humidity / %	0-100
	HHT-15000	Communication with BMS	CAN,RS85	CT Connection Type	Plug-in Connector
Noise Emission (Typical) / dB(A)	40	Communication with Meter	RS485	Max. Operating Altitude / m	2000 (>2000 Derating)
User Interface	LED/LCD	Cooling Method HHT-5000 - 12000	Natural Cooling	Climatic Category (1 EC 60721-3-4)	4K4H
PV Connection Type	Mc4	HHT-15000	Smart Cooling Concept	Protection Class	IP65 Topology Transformerless
Battery Connection Type	SUNCLIX			Night Consumption / W	<13