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

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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
THDi@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 Votlage / V		620			
	HHT-12000	18000	Max. Input Current / A	HHT-5000 - 12000	15/15	No. of MPPTs/ No. Strings Per MPPT	HHT-5000 - 12000	2/ (1/1)
	HHT-15000	22500		HHT-15000	30/15		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 / ℃	-25 ~ +60
Weight / kg	HHT-5000 - 12000	20	Communication with Cloud	RS485/Wi-Fi/4G/ LAN (optional)	Relative Humidity / %	0 - 100
	HHT-15000	23			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 (IEC 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