

storage⁺

HHS^{HV}

3-6K

SINGLE PHASE HYBRID



Peak Efficiency
97.9 %



Max. DC Overload
60 %



Aluminum Alloy Die Casting



MES + FCT + CRM
Infrastructure



Easy to Install and Service



Energy Management

HYPONTECH

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EN 20250410



MODEL	HHS-3000	HHS-3680	HHS-5000	HHS-6000
PV INPUT				
Max. PV Power / Wp	4950	5520	7500	9600
Max. Input Voltage / V	600	600	600	600
MPP Voltage Range/ V	80-520	80-520	80-520	80-520
Start up voltage /V	70	70	70	70
Rated input voltage /V	360	360	360	360
Max. Input Current / A	13/13	13/13	13/13	13/13
Max. Short Circuit Current / A	20/20	20/20	20/20	20/20
No. of MPPTs / No. strings per MPPT	2/1	2/1	2/1	2/1

AC OUTPUT/INPUT				
Rated Power / W	3000	3680	5000	6000
Max. Apparent Power / VA	3300	3680	5500	6600
Max. Input Power / W	6000	7000	8000	9000
Max. Apparent AC Power from grid / VA	6600	7360	8500	10000
Rated Grid Voltage / Vac	220/230/240	220/230/240	220/230/240	220/230/240
Grid Connection	L-N-PE	L-N-PE	L-N-PE	L-N-PE
Rated Frequency / Hz	50/60	50/60	50/60	50/60
Max. Output Current / A	15.0	16.0	23.0	27.3
Max. Current from grid / A	30.0	32.0	36.0	40.0
Power Factor	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap
THDi @ Rated Power	<3%	<3%	<3%	<3%

AC OUTPUT (BACK-UP)				
Rated Power / W	3300	3680	5000	6000
Peak Apparent Output Power / VA	3960	4416	6000	7200
Rated Output Voltage / V	230	230	230	230
Rated Output Frequency / Hz	50/60	50/60	50/60	50/60
Max. Output Current / A	15.0	16.0	23.0	27.3
Auto Switch Time / ms	<10	<10	<10	<10
THDV@Linear Load	<2%	<2%	<2%	<2%

BATTERY INPUT		EFFICIENCY	
Battery Type	Li-ion	Max. Efficiency	97.9%
Input Voltage Range / V	80-480	Euro. Efficiency	97.4%
Max. Charging/Discharging Current / A	25/25	MPPT Efficiency	99.9%
Charging Strategy for Li-ion Battery	Self-adaption to BMS	Charging Efficiency© PV-Battery	98.0%
Start up Voltage / V	70	Charging/Discharging Efficiency© Battery<-> Grid/Load	97.0%

PROTECTION FUNCTION			
Anti-Islanding Protection	Integrated	Residual Current Monitoring Unit	Integrated
PV String Input Reverse Polarity Protection	Integrated	Output Over Current Protection	Integrated
Insulation Resistance Detection	Integrated	Output Short Circuit Protection	Integrated
Over Voltage Protection	Integrated	Surge Protection	DC: Optional / AC: Type II
Battery Reverse Protection	Integrated		

GENERAL DATA			
Dimensions (W*H*D) / mm	425*351*160	Communication with Cloud	RS485/Wi-Fi/4G/LAN (optional)
Weight / kg	14.2	Communication with BMS	CAN/RS485
User Interface	LED&LCD	Communication with Meter	RS485
DC Connection Type	MC4	Cooling Method	Natural Cooling
Battery Connection Type	SUNCLIX	Operating Ambient Temperature / °C	-25 ~ +60
AC Connection Type	Plug-in Connector	Relative Humidity / %	0-100
		CT Connection Type	Plug-in Connector
		Max. Operating Altitude / m	3000 (>3000 Derating)
		Climatic Category (1 EC 60721-3-4)	4K4H
		Protection Class	IP65
		Topology	Transformerless
		Night Consumption / W	<5