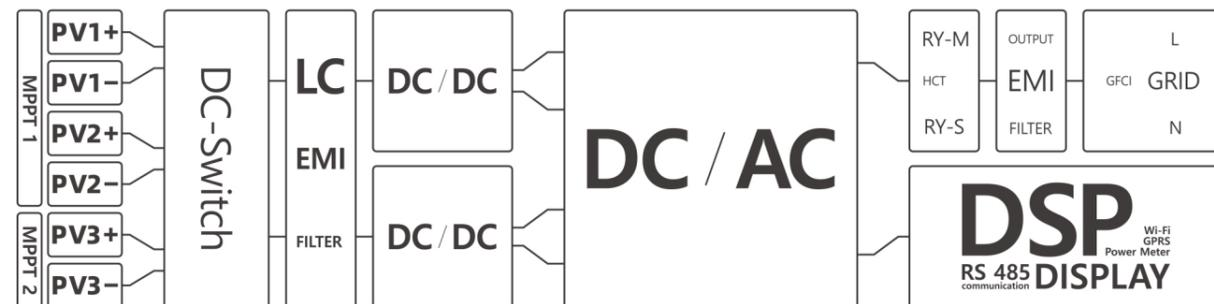


EVERYTHING +
HEAVY CALIBER

HPS
SINGLE PHASE
7-10.5K



- 
Peak Efficiency
98.0%
- 
Max. DC Overload
50%
- 
Aluminum Alloy
Die Casting
- 
MES + FCT + CRM
Infrastructure
- 
Easy to
Install and Service



MODEL	HPS-7000	HPS-8000	HPS-9000	HPS-10000	HPS-10500
INPUT / DC					
Max. PV Power / Wp	10500	12000	13500	15000	15000
Max. Output Power per MPPT / W	6000/5000				
Max. Input Voltage / V	600				
MPP Voltage Range / V	80-550				
Start Up Voltage / V	70				
Nominal DC-Input Voltage / V	360				
Max. Input Current / A	26/13			16/16/16	
Max. DC Short Circuit Current / A	40/20			20/20/20	
No. of Independent MPPT Inputs	2			3	
No. of PV Strings per MPPT	2/1			1/1/1	
OUTPUT / AC					
Rated Power / W	7000	8000	9000	10000	10500@230V 10100@220V
Max. Apparent AC Power / VA	7700	8800	9900	10000	10500@230V 10100@220V
Rated Grid Voltage / Vac	220/230/240				
Grid Connection	L-N-PE				
Rated Power Frequency / Hz	50/60				
Max. Output Current / A	35	40	45	45.5	46
Power Factor	0.8ind to 0.8cap				
THDi @ Rated Power	<3%				
EFFICIENCY					
Max. Efficiency	98.0%				
Euro. Efficiency	97.6%				
MPPT Efficiency	>99.9%				
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	Integrated				
Over Voltage Protection	II (DC), III (AC)				
Surge Protection	DC: Optional / AC: Type II				
GENERAL DATA					
Dimensions (W*H*D) / mm	425*351*160				
Weight / kg	14				
Noise Emission (Typical) / dB(A)	<25				
User Interface	LCD&LED or LED				
DC Connection Type	MC4 (D4, SUNCLIX, H4 optional)				
AC Connection Type	Plug-in Connector				
Communication	RS485/WiFi/GPRS (optional)				
Cooling Method	Natural Cooling				
Operating Ambient Temperature / ºC	-25 ~ +60				
Relative Humidity	0% to 100%				
Max. Operating Altitude / m	3000 (>3000 Derating)				
Protection Class (IEC 60529)	IP65				
Climatic Category (IEC 60721-3-4)	4K4H				
Topology	Transformerless				
Night Consumption / W	<1				

FEATURES

BLOCK DIAGRAM



STORAGE +
SUSTAINABLE FREEDOM

HHS

SINGLE PHASE HYBRID
3-6K



PV Peak Efficiency
97.9%



Max. DC Overload
60%



Aluminum Alloy
Die Casting



MES + FCT + CRM
Infrastructure



Easy to
Install and Service



Energy
Management

MODEL	HHS-3000	HHS-3680	HHS-5000	HHS-6000
INPUT / DC				
Max. PV Power / Wp	4950	5520	7500	9600
Max. Input Voltage / V	600			
MPP Voltage Range / V	80-520			
Min. Input Voltage / V	70			
Nominal DC-Input Voltage / V	360			
Max. Input Current / A	13/13			
Max. DC Short Circuit Current / A	20/20			
No. of Independent MPPT Inputs	2			
No. of PV Strings per MPPT	1			
BATTERY INPUT				
Battery Type	Li-Ion			
Battery Voltage Range / V	80-480			
Start Up Voltage / V	70			
Max. Charging/Discharging Current / A	25/25			
Charging Strategy for Li-Ion Battery	Auto-adaption to BMS			
AC OUTPUT / INPUT				
Rated Power to grid / W	3000	3680	5000	6000
Max. Apparent AC Power to grid / VA	3300	3680	5500	6600
Max. Apparent AC Power from grid / VA	6600	7360	8500	10000
Rated Grid Voltage / Vac	220/230/240			
Grid Connection	L-N-PE			
Rated Power Frequency / Hz	50/60			
Max. Output Current to grid / A	15	16	23	27.3
Max. AC Current from grid / A	30	32	36	40
Power Factor	0.8ind to 0.8cap			
THDi @ Rated Power	<3%			
AC OUTPUT (BACK-UP)				
Rated Power / W	3300	3680	5000	6000
Peak Apparent Output Power @60° / VA	3960	4416	6000	7200
Rated Power Frequency / Hz	50/60			
Max. Output Current / A	15	16	23	27.3
Automatic Switch Time / ms	<10			
Nominal Output Voltage / V	230			
Nominal Output Frequency / Hz	50/60			
THDv @ Linear Load	<3%			
EFFICIENCY				
PV Max. Efficiency	97.9%			
PV Euro. Efficiency	97.4%			
PV Max. MPPT Efficiency	99.9%			
Max. Charging Efficiency @ PV->Battery	98.0%			
Max. Charge/Discharge Efficiency @ Battery <->Load	97.0%			
PROTECTION FUNCTION				
Anti-Islanding Protection	Integrated			
PV Input Reverse Polarity Protection	Integrated			
Insulation Resistance Detection	Integrated			
Residual Current Monitoring	Integrated			
Output Over Current Protection	Integrated			
Output Short Circuit Protection	Integrated			
Over Voltage Protection	II (DC), III (AC)			
Surge Protection	DC: Optional / AC: Type II			
Battery Reverse Polarity Protection	Integrated			
GENERAL DATA				
Dimensions (W*H*D) / mm	425*351*160			
Weight / kg	13.8			
Noise Emission (Typical) / dB(A)	<25			
User Interface	LED&LCD			
DC Connection Type	MC4			
Battery Connection Type	SUNCLIX			
AC Connection Type	Plug-in Connector			
Communication with Cloud	WiFi/4G (optional)			
Communication with BMS	CAN/RS485			
Communication with Power Meter	RS485			
Cooling Method	Natural Cooling			
Operating Ambient Temperature / A	-25 ~ +60			
Relative Humidity	0% to 100%			
Max. Operating Altitude / m	3000 (>3000 Derating)			
Protection Class (IEC 60529)	IP65			
Climatic Category (IEC 60721-3-4)	4K4H			
Topology	Transformerless			
Night Consumption / W	<5			

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FEATURES