

HHS

Single Phase Hybrid

3.68-5K



Features



Aluminum Alloy
Die Casting



Max. DC Overload
40%



Peak Efficiency
98%



MES + FCT + CRM
Infrastructure

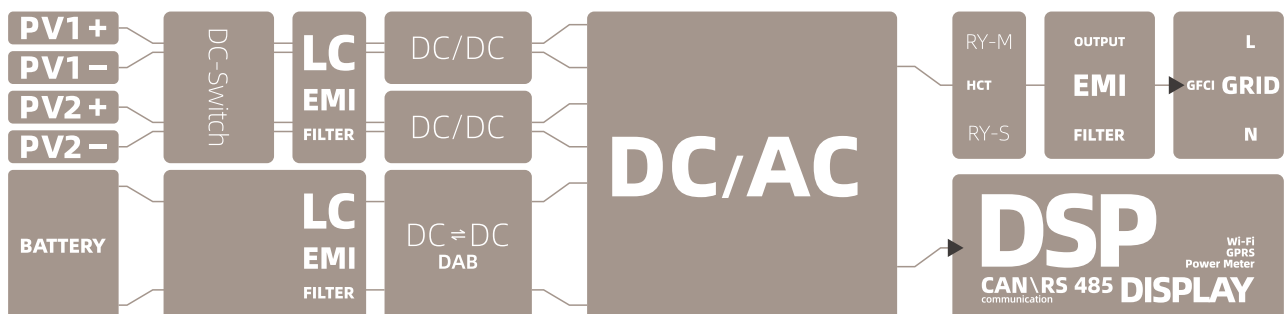


Easy to
Install and Service



Energy
Management

Block Diagram



MODEL (HYBRID INVERTER)	HHS-3680	HHS-5000		
BATTERY INPUT DATA			PROTECTION FUNCTION	
Battery Type	Li-Ion/Lead-Acid		Anti-Islanding	Integrated
Battery Voltage Range / V	85 - 480		Insulation Resistance Detection	Integrated
Start Up Voltage / V	90		Residual Current Monitoring	Integrated
Max. Charging/Discharging Current / V	25/25		Output Over Current	Integrated
Charging Strategy for Li-Ion Battery	Self-Adaption to BMS		Output Over Voltage	II (DC), III (AC)
INPUT / DC			Output Short Circuit	Integrated
Max. PV Power / Wp	5152	7000	Surge Protection	DC: Optional / AC: Type II
Max. Input Voltage / V	600		GENERAL DATA	
MPP Voltage Range / V	80-520		Dimensions (W*H*D) / mm	425*346*160
Min. Input Voltage / V	80		Weight / kg	12
Nominal DC-Input Voltage / V	360		Noise Emission (typical) / dB (A)	<30
Max. Input Current / A	12.5/12.5		User Interface	LED
Max. Short DC Current / A	15.6/15.6		DC Connection Type	MC4 (SUNCLIX, H4 Optional)
No. of Independent MPPT Inputs	2		Battery Connection Type	SUNCLIX
No. of PV Strings per MPPT	1		AC Connection Type	Plug-in Connector
OUTPUT (AC TO GRID)			Communication with Portal	WiFi/GPRS (Optional)
Rated Power to Grid / W	3680	5000	Communication with BMS	CAN
Max. Apparent AC Power to Grid / VA	3680	5000	Communication with Power Meter	RS485
Max. Apparent AC Power from Grid / VA	7360	10000	Cooling Method	Natural Cooling
Rated Grid Voltage / Vac	220/230/240		Operating Ambient Temperature / °C	-25°C - +60°C
Rated Power Frequency / Hz	50/60		Allowable Relative Humidity Range	0% - 100%
Max. Output Current to Grid / A	16	23	Max. Operating Altitude / m	3000 (>3000 Derating)
Max. AC Current from Grid / A	32	46	Degree of Protection (IEC 60529)	IP65
Power Factor	0.8ind to 0.8cap		Climatic Category (IEC 60721-3-4)	4K4H
THDi at Rated Power	<3%		Isolation Method	Transformerless
OUTPUT (AC TO LOADS)			Power Loss On Night Mode / W	<1
Max. Apparent Output Power / VA	3680	5000		
Peak Apparent Output Power / VA	4416 for 60"	6000 for 60"		
Rated Power Frequency / Hz	50/60			
Max. Output Current / A	16	23		
Automatic Switch Time / ms	<10			
Nominal Output Voltage / V	230 (±2%)			
Nominal Output Frequency / Hz	50/60(±0.2%)			
THDv at Linear Load	<3%			
EFFICIENCY				
PV Max. Efficiency	97.6%			
PV Euro. Efficiency	97%			
PV Max. MPPT Efficiency	99.9%			
Battery Charged By PV Max. Efficiency	98.0%			
Battery Charge/Discharge From To AC Max. Efficiency	96.6%			