

W-HHS
SINGLE PHASE
HYBRID



Features



Peak Efficiency
97.6%



Max. DC Overload
50%



Aluminum Alloy
Die Casting

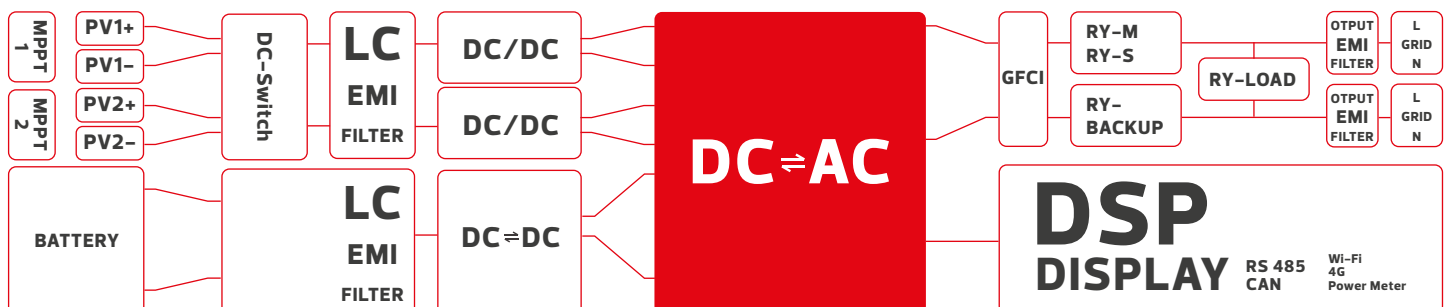


Easy to
Install and Service



Energy
Management

Block Diagram



W-HHS Specification

Model HYBRID INVERTER	W-HHS 3000	W-HHS 3680	W-HHS 5000	W-HHS 6000
BATTERY INPUT DATA				
Battery Type	Li-Ion			
Battery Voltage Range / V	80 - 480			
Start Up Voltage / V	70			
Max. Charging/Discharging Current / V	25/25			
Charging Strategy for Li-Ion Battery	Auto-Adaption to BMS			
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. Short DC Current / A	20/20			
No. of Independent MPPT Inputs	2			
No. of PV Strings per MPPT	1			
OUTPUT (AC TO GRID)				
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			
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%			
OUTPUT (AC TO LOADS)				
Max. Apparent Output Power / VA	3300	3680	5000	6000
Peak Apparent Output Power / 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 (±2%)			
Nominal Output Frequency / Hz	50/60(±0.2%)			
THDv @ Linear Load	<3%			
EFFICIENCY				
PV Max Efficiency	97.6%			
PV Euro. Efficiency	97.4%			
PV Max MPPT Efficiency	99.9%			
Battery Charged By PV Max. Efficiency	98.0%			
Battery Charge/Discharge From/To AC Max. Efficiency	97%			

PROTECTION FUNCTION	
Anti-Islanding	Integrated
Insulation Resistance Detection	Integrated
Residual Current Monitoring	Integrated
Output Over Current	Integrated
Output Over Voltage	II (DC), III (AC)
Output Short Circuit	Integrated
Surge Protection	DC: Optional / AC: Type II
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 (SUNCLIX, H4 Optional)
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 / °C	-25°C - +60°C
Relative Humidity	0% - 100%
Max. Operating Altitude / m	3000 (> 3000 Derating)
Degree of Protection (IEC 60529)	IP65
Climatic Category (IEC 60721-3-4)	4K4H
Topology	Transformerless
Night Consumption / W	<5