



# Hybrid Inverter

Specifications

## HSC AiP

6 ~ 12 kW 1ph



**Separate Generator input**  
with Inbuilt reverse stop

**ANTI-Island**  
Anti-Feed-in Function

**PROTECTION**  
Multiple Intelligent Protections

**Wi-Fi**  
Wi-Fi Standard, Ethernet/GPRS Optional

**UPDATE**  
Remote Firmware Update

Higher Yields



Optimized Solar power production with max self consumption



Optimizer installed



Colorful touch LCD, User-friendly

Configurable Operation Modes

Easy Installation

■ Technical Data	HSC AiP 6S	HSC AiP 8S	HSC AiP 9S	HSC AiP 10S	HSC AiP 11S	HSC AiP 12S
<b>PV Input</b>						
Max. Input Power (kW)	9	12	13.5	15	16.5	18
Max. PV Voltage (V)	550					
MPPT Range (V)	80 - 500					
Full MPPT Range (V)	170 - 500	150 - 500	160 - 500	130 - 500	150 - 500	160 - 500
Normal Voltage (V)	360					
Startup Voltage (V)	100					
Max. Input Current (A)	18.5 x 2		18.5 x 3			
Max. Short Current (A)	26 x 2		26 x 3			
No. of MPP Tracker / No. of PV String	2/2		3/4			
<b>Battery Port</b>						
Max. Charge/Discharge Power (kW)	6.0	8.0	9.0	10	11	12
Max. Charge/Discharge Current (A)	120	200	240	240	240	240
Battery Normal Voltage (V)	51.2					
Battery Voltage Range (V)	40 - 60					
Battery Type	Li-ion / Lead-acid etc.					
<b>AC Grid &amp; Diesel Gen (Optional)</b>						
Max Continuous Current (A)	28	37	41	46	50	55
Max Continuous Power (kVA)	6.0	8.0	9.0	10	11	12
Nominal Grid Current (A)	26 / 28	37 / 35	41 / 39	46 / 44	50 / 48	55 / 52
Nominal Grid Voltage (V)	190 to 242 @ 220 / 207 to 260 @ 230					
Nominal Grid Frequency (Hz)	50 / 60					
Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)					
Current THD (%)	< 3					
<b>AC Load Output</b>						
Max Continuous Current (A)	28	37	41	46	50	55
Max Continuous Power (kVA)	6	8	9	10	11	12
Max Peak Current (A) (10min)	39.2 / 40	55.5 / 52.5	61.5 / 58.5	69 / 66	75 / 72	82.5 / 78
Max Peak Power (kVA) (10min)	9.0	12	13.5	15	16.5	18
Nominal AC Voltage L-N (V)	220 / 230					
Nominal AC Frequency (Hz)	50 / 60					
Switching Time (ms)	Seamless					
Voltage THD (%)	< 3					
<b>Efficiency</b>						
European Efficiency (%)	97.0		98.1			
Max. Efficiency (%)	97.6		96.8			
<b>Protection</b>						
PV Reverse Polarity Protection	Yes					
Bat. Reverse Polarity Protection	Yes					
Over Current/Voltage Protection	Yes					
Anti-Islanding Protection	Yes					
AC Short Circuit Protection	Yes					
Residual Current Detection	Yes					
Ground Fault Monitoring	Yes					
PV Arc Detection	Yes					
Enclosure Protect Level	IP65 / NEMA4X					
<b>General Data</b>						
Dimensions (W x H x D, mm)	370 x 535 x 192		785 x 614 x 258			
Weight (kg)	20.5		43			
Topology	Transformerless					
Cooling	Intelligent Fan					
Relative Humidity	0 - 100 %					
Operating Temperature Range (°C)	- 25 to 60 (Derating 45)					
Operating Aaltitude (m)	< 2000					
Noise Emission (dB)	< 25		< 40			
Standby Consumption (W)	< 10		< 30			
Mounting	Wall Bracket					
Communication with RSD	SUNSPEC					
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G					
Certification & Approvals	NRS097, G98, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2					
EMC	EN61000-6-2, EN61000-6-3					