

7-10 kW

# SINGLE PHASE PV STRING INVERTER



The SunArk HNS Series Single-phase inverters are designed for residential PV system applications, rating from 7kW to 10kW. All models have unibody housings with aluminum structure which is anodized, increasing durability and effectively prevents corrosion. Equipped with external inductors, the unibody housings can ensure efficient heat dissipation, which significantly improves the reliability and extends the life of the inverters.

The inverter menu is activated by sensor touch buttons. Communication implements are via the Wi-Fi module (can be changed to Ethernet / GPRS). Check the system status anytime and anywhere via online portal or APP.



## Anti-Flow

Anti-Feed-in Function



## PV Oversize

Max. 1.5 time PV Oversize Capacity



## Protection

Multiple intelligent Protections



## Smart

Smart IV Curve Scanning



## Wi-Fi

Wi-Fi Standard Ethernet/GPRS Optional



## Configuration

Quick & Easy Config. via Wi-Fi



## Modbus

MODBUS Communication Ready

- MPPT efficiency > 99.9%
- Two MPPT design
- Active and reactive power compensation, adjust power factor

- No fans design
- Quick and easy installation
- High-quality power output and low THDI

PV Input Data	HNS7000TL	HNS8000TL	HNS9000TL	HNS10000TL
Max. DC Power ( W )	9800	11200	126000	14000
Max. DC Voltage ( V )	600			
MPPT Voltage Range ( V )	70-550			
MPPT Full Power Voltage Range ( V )	220-550			
Rated Input Voltage ( V )	360			
Start-up Voltage ( V )	70			
Max. Input Current ( A )	14+26		26+26	
Max. Short Current ( A )	18+35		35+35	
No. of MPP Tracker/No. of PV String	2/3		2/4	
Input Connector Type	MC4			
<b>AC Output Data</b>				
Max. Output Power ( W )	7700	8800	9900	11000
Nominal Output Power ( W )	7000	8000	9000	10000
Max. Output Current ( A )	33.6	38.3	45	50
Nominal Output Voltage ( V )	L/N/PE, 220Vac, 230Vac, 240Vac			
Grid Voltage Range	180Vac-276Vac (According to local standard)			
Nominal Output Frequency ( Hz )	50/60			
Grid Frequency Range	45-55Hz/54-66Hz (According to local standard)			
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)			
Output Current THD	<3%			
<b>Efficiency</b>				
Max. Efficiency	98.20%	98.20%	98.32%	98.40%
Euro Efficiency	97.95%	98.00%	98.00%	98.10%
<b>Protection</b>				
PV Reverse Polarity Protection	YES			
PV Insulation Resistance Detection	YES			
AC Short Circuit Protection	YES			
AC Over Current Protection	YES			
AC Over Voltage Protection	YES			
Anti-Islanding Protection	YES			
Residual Current Detection	YES			
Over Temperature Protection	YES			
Integrated DC switch	YES			
Surge Protection	Integrated (Type III)			
Smart IV Curve Scanning	YES			
Quick Arc Fault Circuit Interruption	Optional			
<b>General Data</b>				
Dimensions ( W x H x D, mm )	370 x 510 x 192		370 x 535 x 192	
Weight ( kg )	17		18	
Protection Degree	IP65			
Enclosure Material	Aluminum			
Ambient Temperature Range (°C)	-25 to 60			
Humidity Range	0-100%			
Topology	Transformer less			
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)			
Cooling Concept	Convection		Intelligent fan cooling	
Noise Emission ( db )	<40			
Night Power Consumption ( W )	<1			
Max. Operation Altitude ( m )	4000			
<b>Certifications and Standards</b>				
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12			
Safety Standard	IEC 60068, UL1741, EN62109			
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, IEC61727			