

HNS Series / 7-10kW

Residential Single Phase String Inverter



Anti-Feed-in Function

Max. 1.5

Max. 1.5 Time PV Oversize Capacity



Multiple Intelligent Protections



Smart IV Curve Scanning



Wi-Fi Standard Ethernet/GPRS Optional



Quick & Easy Config. via Wi-Fi



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 & low THDI

PV Input Data	HNS7000TL	HNS8000TL	HNS9000TL	HNS10000TL
Max. DC Power (W)	9800	11200	12600	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 MPPT Tracker / No. of PV String	2/3			2/4
Input Connector Type	MC4			
AC Output Data				
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%			
Efficiency				
Max. Efficiency	98.20%	98.20%	98.32%	98.40%
Euro Efficiency	97.95%	98.00%	98.00%	98.10%
Protection				
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 (TypeIII)
Smart IV Curve Scanning				YES
Quick Arc Fault Circuit Interruption				Optional
General Data				
Dimensions (H x W x D, mm)			510 x 370 x 167	
Weight (kg)	17			19
Protection Degree	IP65			
Enclosure Material	Aluminum			
Ambient Temperature Range (°C)	-25 to 60			
Humidity Range	0-100%			
Topology	Transformerless			
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)			
Cooling Concept	Convection			
Noise Emission (db)	< 40			
Night Power Consumption (W)	< 1			
Max. Operation Altitude (m)	4000			
Certifications & Standards				
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, G98/G99, IEC61727			