

HNS Series / 1-3kW

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%
- ▶ Compact and light body design
- ▶ Active and reactive power compensation, adjust power factor
- ▶ No fans design
- ▶ Quick and easy installation
- ▶ AC output 1.1x continuous operation

PV Input Data	HNS1000TL-1	HNS1500TL-1	HNS2000TL-1	HNS2500TL-1	HNS3000TL-1
Max. DC Power (W)	1500	2250	3000	3750	4200
Max. DC Voltage (V)	500	500	500	500	500
MPPT Voltage Range (V)	50-500	50-500	50-500	50-500	50-500
MPPT Full Power Voltage Range (V)	70-500	110-500	145-500	180-500	220-500
Rated Input Voltage (V)	360				
Start-up Voltage (V)	50				
Max. Input Current (A)	14				
Max. Short Current (A)	18				
No. of MPPT Tracker / No. of PV String	1/1				
Input Connector Type	MC4				
AC Output Data					
Max. Output Power (W)	1100	1650	2200	2750	3300
Nominal Output Power (W)	1000	1500	2000	2500	3000
Max. Output Current (A)	6	9	12	13	15
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	97.50 %	97.80%	98.10%	98.10%	98.13%
Euro Efficiency	96.60 %	96.70%	96.80%	97.23%	97.56%
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 (Type III)				
Smart IV Curve Scanning	YES				
Quick Arc Fault Circuit Interruption	Optional				
General Data					
Dimensions (H x W x D, mm)	260 x 280 x 116				
Weight (kg)	6				
Protection Degree	IP65				
Enclosure Material	Aluminum				
Ambient Temperature Range (°C)	-25to 60				
Humidity Range	0-100%				
Topology	Transformerless				
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)				
Cooling Concept	Convection				
Noise Emission (db)	< 21				
Night Power Consumption (W)	< 0.2		< 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				