

8.Specifications

PV Input Data	HNS3600TL-1	HNS3000TL	HNS3600TL	HNS4000TL	HNS5000TL	HNS6000TL
Max. DC Power (W)	4200	4500	5400	6000	7000	8400
Max. DC Voltage (V)	600	600	600	600	600	600
MPPT Voltage Range (V)	70-500	70-550	70-550	70-550	70-550	70-550
MPPT Full Power Voltage Range (V)	130-500	110-550	130-550	145-550	180-550	220-550
Rated Input Voltage (V)	360	360	360	360	360	360
Start-up Voltage (V)	70	70	70	70	70	70
Max. Input Current (A)	14	14 x 2	14 x 2	14 x 2	14 x 2	14 x 2
Max. Short Current (A)	18	18 x 2	18 x 2	18 x 2	18 x 2	18 x 2
No. of MPP Tracker / No. of PV String	1/1	2/2	2/2	2/2	2/2	2/2
Input Connector Type	MC4	MC4	MC4	MC4	MC4	MC4
AC Output Data	HNS3600TL-1	HNS3000TL	HNS3600TL	HNS4000TL	HNS5000TL	HNS6000TL
Max. Output Power (W)	3960	3300	3960	4400	5500	6600
Nominal Output Power (W)	3600	3000	3600	4000	5000	6000
Max. Output Current (A)	17.5	15	17.5	20	24	28.7
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	HNS3600TL-1	HNS3000TL	HNS3600TL	HNS4000TL	HNS5000TL	HNS6000TL
Max. Efficiency	98.20%	98.20%	98.20%	98.20%	98.20%	98.20%
Euro Efficiency	97.80%	97.80%	97.82%	97.85%	97.90%	97.92%
Protection	HNS3600TL-1	HNS3000TL	HNS3600TL	HNS4000TL	HNS5000TL	HNS6000TL
PV Reverse Polarity Protection	YES	YES	YES	YES	YES	YES
PV Insulation Resistance Detection	YES	YES	YES	YES	YES	YES
AC Short Circuit Protection	YES	YES	YES	YES	YES	YES
AC Over Current Protection	YES	YES	YES	YES	YES	YES
AC Over Voltage Protection	YES	YES	YES	YES	YES	YES
Anti-Islanding Protection	YES	YES	YES	YES	YES	YES
Residual Current Detection	YES	YES	YES	YES	YES	YES
Over Temperature Protection	YES	YES	YES	YES	YES	YES
Integrated DC switch	YES	YES	YES	YES	YES	YES
Surge Protection	Integrated (Type III)					
General Data	HNS3600TL-1	HNS3000TL	HNS3600TL	HNS4000TL	HNS5000TL	HNS6000TL
Dimensions (W x H x D, mm)	358x360x142					
Weight (kg)	10					
Protection Degree	IP65					
Enclosure Material	Aluminum					
Ambient Temperature Range (°C)	-25 ~ +60°C (Derating 45°C)					
Humidity Range	0-100%					
Topology	Transformerless					
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)					
Cooling Concept	Convection					
Noise Emission (db)	<28					
Night Power Consumption (W)	<1					
Max. Operation Altitude (m)	4000					
Certifications and Standards	HNS3600TL-1	HNS3000TL	HNS3600TL	HNS4000TL	HNS5000TL	HNS6000TL
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, IEEE1547,EN62109					
Grid-connection	EN50549-1, EN50438, RD 1699,UNE 217001, RD 413, IEC61727, IEC62116, IEC61683, VDE4105, UL1741 VDE0126 AS4777.2 NB/T 32004-2018, UNT C 15-712-1, ABNT NBR 16149, ABNT NBR 16150					