

HNS1000TL-1 / HNS3000TL / HNS4000TL / HNS6000TL

INVERTER SINGLE-PHASE

**Possibility of grid connection
(CEI-021)**



Storage-less photovoltaic inverters are a key component in solar installations dedicated exclusively to conversion and immediate feeding of the energy produced into the grid. These devices are designed to transform the direct current (DC) generated by solar panels into alternating current (AC), compatible with domestic electrical infrastructure and the energy distribution grid.

FEATURES

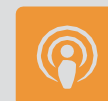
- MPPT efficiency > 99.9%.
- 2 MPPT.
- Active/reactive power compensation and power factor adjustment.
- Cooling with natural air circulation
- Quick and easy installation.
- High quality output power and low THDI.



ANTI-FLOW
Output current blocking function.



MAX. INPUT C/C
Maximum panel power 1.5 of the inverter power



PROTECTION
Smart Protections



SMART
Intelligent I-V curve scanning



CONFIGURATION
Simple via WIFI



MODBUS

GENERAL DATA	HNS1000TL-1	HNS3000TL	HNS4000TL	HNS6000TL
DIMENSIONS (H X W X D, MM)	280x260x116	370x350x142		
WEIGHT (KG)	6	11		
DEGREE OF PROTECTION	IP65	IP65		
HOUSING MATERIAL	Aluminium	Aluminium		
TEMPERATURE RANGE ENVIRONMENT (°C)	-25 a 60	-25 a 60		
HUMIDITY RANGE	0-100%	0-100%		
TOPOLOGY	Without transformer	Without transformer		
COMMUNICATION INTERFACE	RS485/WiFi/Ethernet	RS485/WiFi/Ethernet		
COOLING CONCEPT	Conventional	Conventional		
NOISE EMISSION (N DB)	<21	<28		
NIGHT-TIME ENERGY CONSUMPTION (W)	<0.2	<1		
MAXIMUM OPERATING ALTITUDE (M)	4000	4000		

FV INPUT DATA	HNS1000TL-1	HNS3000TL	HNS4000TL	HNS6000TL
MAX. DC POWER (W)	1500	4500	6000	8400
MAX. DC VOLTAGE (V)	600	600	600	600
INTER. VOLTAGE MPPT (V)	50-500	70-550	70-550	70-550
INTER. OF VOLTAGE AT FULL POWER (V)	70-500	110-550	145-550	220-550
NOM. INPUT VOLTAGE (V)	360	360	360	360
STARTING VOLTAGE (V)	50	70	70	70
MAX. INPUT CURRENT (A)	14	14 x 2	14 x 2	14 x 2
MAX. SHORT CURRENT (A)	18	18 x 2	18 x 2	18 x 2
N. MPPT / NO. OF FV STRINGS	1/1	2/2	2/ 2	2/ 2
INPUT CONNECTOR TYPE	MC4	MC4	MC4	MC4
AC OUTPUT DATA	HNS1000TL-1	HNS3000TL	HNS4000TL	HNS6000TL
MAX. OUTPUT POWER (W)	1100	3300	4400	6600
NOMINAL OUTPUT POWER (W)	1000	3000	4000	6000
MAX. OUTPUT CURRENT (A)	6	15	20	28.7
NOMINAL OUTPUT VOLTAGE (V)	L/N/PE, 220Vac, 230Vac, 240Vac			
MAINS VOLTAGE RANGE	180Vac-276Vac (according to local standard)			
NOMINAL OUTPUT FREQUENCY (HZ)	50/60			
NETWORK FREQUENCY	45-55Hz/54-66Hz (according to local standard)			
OUTPUT POWER FACTOR	1 default (adjustable from 0.8 early to 0.8 late)			
THD OUTPUT CURRENT	<3%			
EFFICIENCY	HNS1000TL-1	HNS3000TL	HNS4000TL	HNS6000TL
MAXIMUM EFFICIENCY	97.50%	98.20%	98.20%	98.20%
EURO EFFICIENCY	96.60%	97.80%	97.85%	97.92%
AC OUTPUT DATA	HNS1000TL-1	HNS3000TL	HNS4000TL	HNS6000TL
PROTECTION FROM POLARITY REVERSAL FV	YES			
DETECTIVE OF FV INSULATION RESISTANCE	YES			
AC SHORT-CIRCUIT PROTECTION	YES			
AC OVERCURRENT PROTECTION	YES			
AC OVERVOLTAGE PROTECTION	YES			
ANTI-ISLANDING PROTECTION	YES			
RESIDUAL CURRENT DETECTION	YES			
OVERTEMPERATURE PROTECTION	YES			
INTEGRATED DC SWITCH	YES			
OVERVOLTAGE PROTECTION	Integrated (Type III)			
INTELLIGENT CURVE SCAN IV	YES			