

Electrical Specifications	HNS1000TL-1	HNS1500TL-1	HNS2000TL-1	HNS2500TL-1	HNS3000TL-1	HNS3000TL	HNS3600TL	HNS4000TL	HNS5000TL	HNS6000TL	HNS7000TL	HNS8000TL
Input (DC)												
Max DC Power (W)	1100	1650	2200	2750	3300	3300	3960	4400	5500	6600	7700	8800
Max DC Voltage (V)	450	450	500	500	500	550	550	550	550	550	580	580
Rated / Recommended Voltage (V)	360	360	360	360	360	360	360	360	360	380	450	450
MPPT DC Voltage Range (V)	50-400	90-400	120-400	120-400	120-400	120-450	120-450	120-450	120-450	120-450	120-480	120-480
Start up DC Voltage (V)	60	60	150	150	150	150	150	150	150	150	150	150
Max DC Current (A)	10	10	12	14	17	12*2	15*2	16*2	18*2	18*2	18*2	18*2
Number of MPPT Tracker	1	1	1	1	1	2	2	2	2	2	2	2
Number of DC Connections (set)	1	1	1	1	1	2	2	2	2	2	2+1	2+1
Output (AC)												
Max AC Power (W)	1100	1650	2200	2750	3300	3300	3700	4100	5100	6100	7100	8100
Nominal AC Power (W)	1000	1500	2000	2500	3000	3000	3600	4000	5000	6000	7000	8000
Max AC Current (A)	6	9	12	13	15	15	16	20	23	27	32	35.5
Nominal AC Current (A)	6	8	10	12	13	13	16	18	22	26	30	32
Nominal AC Voltage (V)	220/230					220/230						
Nominal AC Frequency (Hz)	50/60					50/60						
Power Factor	-0.95 ~ +0.95					-0.95 ~ +0.95						
Output current THD	<3%					<3%						
Power Efficiency												
Max Efficiency	97.00%	97.20%	98.10%	98.10%	98.13%	98.20%	98.20%	98.20%	98.20%	98.20%	98.20%	98.20%
Euro Efficiency	96.50%	96.60%	96.80%	97.23%	97.56%	97.80%	97.82%	97.85%	97.60%	97.60%	97.60%	97.60%
MPPT Efficiency	>99.90%	>99.90%	>99.90%	>99.90%	>99.90%	>99.90%	>99.90%	>99.90%	>99.90%	>99.90%	>99.90%	>99.90%
Safety and protection												
Safety Standard	EN/IEC 62109-1/-2					EN/IEC 62109-1/-2						
EMC Standard	EN/IEC 61000-6, EN/IEC 61000-3					EN/IEC 61000-6, EN/IEC 61000-3						
Anti-islanding Protection	Internal					Internal						
General information												
Dimensions (W*H*D) (mm)	320*345*170			360*345*170			460*345*170					
Enclosure	IP65					IP65						
RCD	Internal					Internal						
Weight (kg)	9			12			17					
Ambient Temperature Range	-25°C ~ +60°C					-25°C ~ +60°C						
Power consumption at Night (W)	<0.2		<1			<1						
Relative humidity	0%~100%					0%~100%						
Topology	Transformerless					Transformerless						
Communication Interface	RS485 / WIFI / Wired Ethernet / GPRS (Optional)					RS485 / WIFI / Wired Ethernet / GPRS (Optional)						
Cooling Concept	Convection					Convection						
Noise Emission (dB)	< 21					< 28			< 40			
Maximum Altitude (above sea level) (m)	Up to 4000m without derating					Up to 4000m without derating						

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VDE 4105G83/2
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UL1741