

Technical Parameters

Type	HNS1000TL-1	HNS1500TL-1	HNS2000TL-1	HNS2500TL-1	HNS3000TL-1	HNS3600TL-1
Input (DC)						
Min/Max PV Generator(W)	400-1100	800-1600	1500-2200	2000-2700	2500-3200	3000-4000
Start up Voltage	60	100	140	140	140	140
Max DC Voltage(V)	320	360	400	400	450	450
MPPT DC Voltage Range(V)	60-320	100-360	140-400	140-400	140-450	140-450
Turn off DC Voltage(V)	50	85	110	110	110	110
Max DC Current(A)	9	9	12	14	17	18
Number of DC Connections	1(string)	1(string)	1(string)	1(string)	2(string)	2(string)
Number of MPP Trackers	1	1	1	1	1	1
Turn On Power (W)	10					
Output (AC)						
202-258						
Max AC Power(W)	1000	1500	2000	2500	3000	3600
Max AC Current(A)	6	8	10	12	14	16
Grid Voltage Range	According to IT:CEI 0-21, UK:G83/2, AU:AS4777, CN:CQC					
Grid Frequency Range	According to IT:CEI 0-21, UK:G83/2 AU:AS4777, CN:CQC					
Power Factor	-0.9 ~ + 0.9					
THD(AC Output Current)	<3%					
AC Connector	Plug In Connector(Inside)					
Power Consumption						
Power Consumption at Night	<1					
Power Consumption at Standby	3					
Max Efficiency(On 400V DC)	96.80%	96.80%	97.00%	97.00%	97.10%	97.10%
Euro Efficiency(On 400V DC)	95.00%	95.00%	96.00%	96.00%	96.30%	96.30%
MPPT Efficiency	>99%					
Safety And Protection						
Internal Overvoltage Protection	Yes					
DC Insulation Monitoring	Yes					
Earth Fault Protection	Yes					
Grid Monitoring	According to IT:CEI 0-21, UK:G83/2, AU:AS4777, CN:CQC					
Earth Fault Current Monitoring	According to IT:CEI 0-21, UK:G83/2, AU:AS4777, CN:CQC					
DC Current Monitoring	According to IT:CEI 0-21, UK:G83/2, AU:AS4777, CN:CQC					
Islanding Protection	According to IT:CEI 0-21, UK:G83/2, AU:AS4777, CN:CQC					
CE-Compliant According to	EN62109, EN61000-6-1, EN61000-6-3, EN61000-6-2, EN61000-6-4, EN61000-3-2, EN61000-3-3, EN61000-3-12, EN61000-3-11					
Environmental Limits						
IP Protection Type	IP65(Outdoor)					
Operation Temperature Range	-20c ~ + 55c					
Max Altitude Above Sea Level	0 to 2000m					
Noise Level(db)	<25	<25	<25	<25	<28	<28
General Data						
Dimensions(WxHxD)	394x300x130	394x300x130	394x300x130	394x300x130	526x300x130	526x300x130
Weight(Kg)	11	11	11	11	16	16
Isolation Type	Transformerless					
Cooling Concept	Natural Convection(No Fan)					
Housing	Alluminium housing for inside and outside installation					
Mounting Information	Wall Bracket					
Display	2xLED, 128x64pix LCD, Backlight					
Data Communication Interfaces	RS485, Optional(3G, WI-FI, Ethernet)					
Computer Communication	RS485					
Standard Warranty	10 Years(Optional 20 Years)					

