

HT Series Datasheet



Technical Data	GW100K-HT	GW110K-HT	GW120K-HT	GW136K-HTH
PV String Input Data				
Max. DC Input Power (kW)	150	165	180	205
Max. DC Input Voltage (V)	1100	1100	1100	1100
MPPT Range (V)	180~1000	180~1000	180~1000	180~1000
Min. Start-up Voltage (V)	200	200	200	200
MPPT Range for Full Load (V)	470~850	470~850	470~850	620~850
Nominal DC Input Voltage (V)	600	600	600	750
Max. Input Current (A)	10*30A	10*30A	12*30A	12*30A
Max. Short Current (A)	10*45A	10*45A	12*45A	12*45A
No. of MPP Trackers	10	10	12	12
No. of Input Strings per Tracker	2	2	2	2
AC Output Data				
Nominal Output Power (kW)	100	110	120	136
Max. Output Power (kW)	110	121	132	150
Max. Output Apparent Power (kVA)	110	121	132	150
Nominal Output Voltage (V)	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	500V, 3L/PE
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60
Max. Output Current (A)	167	175.5	191.3	173.2A
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency	98.6%	98.6%	98.6%	99.0%
European Efficiency	98.3%	98.3%	98.3%	98.5%
Protection				
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated
Internal Humidity Detection	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
DC SPD Protection	Type II (Type I optional)			
AC SPD Protection	Type II (Type I optional)			
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated
Arc Fault Protection	Optional	Optional	Optional	Optional
Emergency Power off	Optional	Optional	Optional	Optional
AC Terminal Over-temperature Protection	Optional	Optional	Optional	Optional
PID Recovery	Optional	Optional	Optional	Optional
General Data				
Operating Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display	LED(Standard), LCD(Optional), Bluetooth+APP			
Communication	RS485 or PLC or WiFi	RS485 or PLC or WiFi	RS485 or PLC or WiFi	RS485 or PLC or WiFi
Weight (kg)	93.5	93.5	98.5	98.5
Dimension (Width*Height*Depth mm)	1005*676*340	1005*676*340	1005*676*340	1005*676*340
Protection Degree	IP66	IP66	IP66	IP66
Night Self Consumption (W)	<2	<2	<2	<2
Topology	Transformerless			

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Technical Data

GW225K-HT

GW250K-HT

PV String Input Data

Max. Input Voltage (V)	1500	1500
MPPT Operating Voltage Range (V)	500~1500	500~1500
Start-up Voltage (V)	550	550
Nominal Input Voltage (V)	1160	1160
Max. Input Current per MPPT (A)	30	30
Max. Short Circuit Current per MPPT (A)	50	50
No. of MPPT	12	12
Number of Strings per Tracker	2	2

AC Output Data

Nominal Output Power (kW)	225	250
Max. AC Active Power (kW)	247.5	250
Max. AC Apparent Power (kVA)	247.5	250
Nominal Output Voltage (V)	800, 3L/PE	800, 3L/PE
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60
Max. Output Current (A)	178.7	180.5
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	
Max. Total Harmonic Distortion	<3%	<3%

Efficiency

Max. Efficiency	99.0%	99.0%
European Efficiency	98.8%	98.8%

Protection

PV String Current Monitoring	Integrated	Integrated
Internal Humidity Detection	Integrated	Integrated
DC Insulation Resistance Detection	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated
DC Reverse Polarity Protection	Integrated	Integrated
DC Surge Arrester	Integrated (Type II)	Integrated (Type II)
AC Surge Arrester	Integrated (Type II)	Integrated (Type II)
AC Overcurrent Protection	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated
DC Arc Fault Circuit Interrupter	Optional	Optional
PID Recovery	Optional	Optional

General Data

Operating Temperature Range (°C)	-30 ~ 60	-30 ~ 60
Relative Humidity	0~100%	0~100%
Max. Operating Altitude (m)	5000 (>4000derating)	5000 (>4000derating)
Cooling Method	Smart Fan Cooling	Smart Fan Cooling
Display	LED (LCD optional), Bluetooth+APP	LED (LCD optional), Bluetooth+APP
Communication	RS485 & PLC	RS485 & PLC
Weight (kg)	111	111
Dimensions (W×H×D mm)	1091×678×341	1091×678×341
DC Connector	MC4 (Max. 6 mm ²)	MC4 (Max. 6 mm ²)
AC Connector	OT / DT terminal (Max. 300 mm ²)	OT / DT terminal (Max. 300 mm ²)
Ingress Protection Rating	IP66	IP66
Overvoltage Category	PV II / AC III	PV II / AC III
Protective class	I	I
Topology	Transformerless	Transformerless

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