

HT Series | 1500Vdc

225-250kW | 6/12 MPPTs Three Phase

The new HT 1500V Series (225/250kW) is GoodWe's top inverter with an extensive list of features designed to reduce system and O&M costs. It is a perfect choice for the utilization of utility-scale centralized PV plants to maximize the return of investment. The HT-1500V Series boasts options of 6 MPPTs and 12 MPPTs, power cable communication 2.0, and is compatible with bifacial 182mm/210mm modules. It features string level monitoring and incorporated I-V curve diagnosis for intelligent detection of voltage and current issues. The series is also equipped with optional PID recovery function and can realize 24-hour monitoring. For GW225KN-HT, the unique mechanism of smart string protection switch will minimize the energy generation loss when a short circuit or reverse connection occurs. The configuration of the HT 1500V can be easily done via Bluetooth, while firmware diagnosis and upgrading can be operated remotely. These outstanding sets of features were conceived to ensure the lowest levelized cost of energy (LCOE) and a utility that runs efficiently.



Smart string protection switch*



I-V curve diagnosis



Power line communication 2.0



20A max. current per string*

Technical Data	GW225K-HT	GW250K-HT	GW225KN-HT	GW250KN-HT
PV String Input Data				
Max. Input Power (kW)	360	360	360	360
Max. Input Voltage (V)	1500	1500	1500	1500
MPPT Operating Voltage Range (V)	500~1500	500~1500	500~1500	500~1500
Start-up Voltage (V)	550	550	550	550
Nominal Input Voltage (V)	1160	1160	1160	1160
Max. Input Current per MPPT (A)	30	30	60	60
Max. Short Circuit Current per MPPT (A)	50	50	90	90
Number of MPPTs	12	12	6	6
Number of Strings per MPPT	2	2	3	3
AC Output Data				
Nominal Output Power (kW)	225	250	225	250
Max. AC Active Power (kW)	247.5	250	247.5	250
Max. AC Apparent Power (kVA)	247.5	250	247.5	250
Nominal Output Voltage (V)	800, 3L / PE	800, 3L / PE	800, 3L / PE	800, 3L / PE
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	178.7	180.5	178.7	180.5
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency	99.0%	99.0%	99.0%	99.0%
European Efficiency	98.8%	98.8%	98.8%	98.8%
Protection				
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated
Internal Humidity Detection	Integrated	Integrated	Integrated	Integrated
DC Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
DC Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
DC Surge Arrester	(Type II)	(Type II)	Type II	Integrated (Type II)
AC Surge Arrester	(Type II)	(Type II)	Type II	Integrated (Type II)
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated
DC Arc Fault Circuit Interrupter	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%
Max. Operating Altitude (m)	5000 (>4000 derating)	5000 (>4000 derating)	5000 (>4000 derating)	5000 (>4000 derating)
Cooling Method	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling
Display	LED (LCD optional), Bluetooth+APP			
Communication	RS485 or PLC	RS485 or PLC	RS485 or PLC	RS485 & PLC
Weight (Kg)	111	111	111	111
Dimensions (W × H × D mm)	1091 × 678 × 341	1091 × 678 × 341	1091 × 678 × 341	1091 × 678 × 341
DC Connector	MC4-Evo2	MC4-Evo2	MC4-Evo2	MC4-Evo2
AC Connector	OT / DT terminal (Max. 300 mm ²)			
Ingress Protection Rating	IP66	IP66	IP66	IP66
Overvoltage Category	PV II / AC III	PV II / AC III	PV II / AC III	PV II / AC III
Protective class	I	I	I	I
Topology	Transformerless	Transformerless	Transformerless	Transformerless

*: Please visit GoodWe website for the latest certificates.

* The product appearance shown is GW225KN-HT/GW250KN-HT. The appearance may vary for GW225K-HT/GW250K-HT.

* For GW225KN-HT and GW250KN-HT only.