

HT Series

225/250kW | Three phase
6/12 MPPTs

The new HT1500V 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 HT1500V Series boasts options of 6 MPPTs and 12 MPPTs, reactive power compensation, and is compatible with bifacial 182mm/210mm modules. It features string level monitoring for intelligent detection of current issues. The series is also equipped with optional Anti-PID function and can realize 24-hour monitoring. For GW225KN-HT & GW250KN-HT, the unique mechanism of smart string protection switch is supported for the DC side protection against short circuits or reverse connections. The configuration of the HT1500V 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 O&M

- String level monitoring
- Real-time monitoring



Lower Cost

- AC terminal ready for 300mm² aluminum cables
- Reactive power compensation at night



Superb Safety & Reliability

- Smart string protection switch¹
- Type II SPD for both DC and AC



Higher Yields

- 20A max. current per string¹
- Anti-PID function

1: For GW225KN-HT and GW250KN-HT only.

Technical Data	GW225K-HT	GW250K-HT	GW225KN-HT	GW250KN-HT
Input				
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 MPP Trackers	12	12	6	6
Number of Strings per MPPT	2	2	3	3
Output				
Nominal Output Power (kW)	225	250	225	250
Nominal Output Apparent Power (kVA)	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
Output Voltage Range (V)	640 ~ 920	640 ~ 920	640 ~ 920	640 ~ 920
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60
AC Grid Frequency Range (Hz)	45 ~ 55 / 55 ~ 65	45 ~ 55 / 55 ~ 65	45 ~ 55 / 55 ~ 65	45 ~ 55 / 55 ~ 65
Max. Output Current (A)	178.7	180.5	178.7	180.5
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	98.5%	98.5%	98.7%	98.7%
Protection				
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type II	Type II	Type II	Type II
AC Surge Protection	Type II	Type II	Type II	Type II
Emergency Power Off	Optional	Optional	Optional	Optional
Remote Shutdown	Optional	Optional	Optional	Optional
Anti-PID	Optional	Optional	Optional	Optional
PID Recovery	Optional	Optional	Optional	Optional
Reactive Power Compensation at Night	Integrated	Integrated	Integrated	Integrated
Power Supply at Night	Integrated	Integrated	Integrated	Integrated
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
User Interface	LED (LCD optional), Bluetooth + APP			
Communication	RS485 or PLC	RS485 or PLC	RS485 or PLC	RS485 or PLC
Communication Protocols	Modbus RTU	Modbus RTU	Modbus RTU	Modbus RTU
Weight (kg)	111	111	111	111
Dimension (W × H × D mm)	1091 × 678 × 341	1091 × 678 × 341	1091 × 678 × 341	1091 × 678 × 341
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<18	<18	<18	<18
Ingress Protection Rating	IP66	IP66	IP66	IP66
DC Connector	MC4-Evo2 (4 ~ 6mm ²)	MC4-Evo2 (4 ~ 6mm ²)	MC4-Evo2 (4 ~ 6mm ²)	MC4-Evo2 (4 ~ 6mm ²)
AC Connector	OT / DT terminal (Max. 300mm ²)			

*: 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.