

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	
MPPT Operating Voltage Range (V)			500 ~ 1500	
Start-up Voltage (V)			550	
Nominal Input Voltage (V)			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	
Output Voltage Range (V)			640 ~ 920	
Nominal AC Grid Frequency (Hz)			50 / 60	
AC Grid Frequency Range (Hz)			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%	
Efficiency				
Max. Efficiency			99.0%	
European Efficiency	98.5%	98.5%	98.7%	98.7%
Protection				
PV String Current Monitoring			Integrated	
PV Insulation Resistance Detection			Integrated	
Residual Current Monitoring			Integrated	
PV Reverse Polarity Protection			Integrated	
Anti-islanding Protection			Integrated	
AC Overcurrent Protection			Integrated	
AC Short Circuit Protection			Integrated	
AC Overvoltage Protection			Integrated	
DC Switch			Integrated	
DC Surge Protection			Type II	
AC Surge Protection			Type II	
Emergency Power Off			Optional	
Remote Shutdown			Optional	
Anti-PID			Optional	
PID Recovery			Optional	
Reactive Power Compensation at Night			Integrated	
Power Supply at Night			Integrated	
General Data				
Operating Temperature Range (°C)			-30 ~ +60	
Relative Humidity			0 ~ 100%	
Max. Operating Altitude (m)			5000 (>4000 derating)	
Cooling Method			Smart Fan Cooling	
User Interface			LED (LCD optional), Bluetooth + APP	
Communication			RS485 or PLC	
Communication Protocols			Modbus RTU	
Weight (kg)			111	
Dimension (W x H x D mm)			1091 x 678 x 341	
Topology			Non-isolated	
Self-consumption at Night (W)			<18	
Ingress Protection Rating			IP66	
DC Connector			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.