

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

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		
AFCI		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 ~ 6mm²)		
AC Connector		OT / DT terminal (Max. 300mm²)		

*: 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.