




Maximising ROI for utility-scale projects in all environments

- ✓ Maximised energy output
- ✓ Lower CAPEX and OPEX
- ✓ Smart and efficient operation
- ✓ Highest safety standards

Designed to support green investments, facilitate bankability and ensure longevity, the HT 1500V is the preferred choice for utility-scale, ground mounted PV plants. The inverter optimises energy yield and ensures continuously high performance even under the toughest environmental conditions, delivering best value for money. Combine with the GoodWe Solar Communication Box SCB3000 to realise remote monitoring and control via power line communication (PLC).

-  Compatible with high-power PV modules
-  High temperature adaptability
-  Integrated PLC



Technical Data	GW225K-HT	GW250K-HT	GW225KN-HT	GW250KN-HT
PV String Input Data				
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
AC Output Data				
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	
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)	

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

*: Please visit GoodWe website for the latest certificates.