




Reduced LCOE for large PV power plants

- ✓ Lower project LCOE
- ✓ All-in-One components solution
- ✓ Highest safety standards & grid support
- ✓ Vertically integrated technical support

An ideal choice for large utility-scale, ground mounted PV plants, the UT inverter was designed to support PV investments, facilitate bankability and increase project lifetime. By maximizing energy yield and ensuring continuous high performance even under extreme environmental conditions, it delivers the best value for money. Combined with the GoodWe Solar Communication Unit SCU3000A, the UT inverter provides reliable remote monitoring and control via High-speed Power Line Communication (HPLC).

-  Full-load operation at 40°C
-  Two strings per MPPT
-  Flexible DC and AC cabling options



Technical Data	GW320K-UT	GW320KH-UT	GW350K-UT	GW350KH-UT
Input				
Max. Input Voltage (V)		1500		
MPPT Operating Voltage Range (V)		480 ~ 1500		
Start-up Voltage (V)		500		
Nominal Input Voltage (V)		1160		
Max. Input Current per MPPT (A)	30	40	30	40
Max. Short Circuit Current per MPPT (A)	50	60	50	60
Number of MPP Trackers	15	12	15	12
Number of Strings per MPPT		2		
Output				
Nominal Output Power (kW)	320	320	352	352
Nominal Output Apparent Power (kVA)	320	320	352	352
Max. AC Active Power (kW)	352	352	352	352
Max. AC Apparent Power (kVA)	352	352	352	352
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)		254		
Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion ^{*1}		<1%		
Efficiency				
Max. Efficiency		99.01%		
European Efficiency		98.80%		
Protection				
PV String Current Monitoring		Integrated		
Internal Humidity 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		
AFCI		Integrated		
Anti-PID		Integrated		
PID Recovery		Integrated		
Reactive Power Compensation at Night		Integrated		
Power Supply at Night		Integrated		
I-V Curve Scan		Optional		
General Data				
Operating Temperature Range (°C)		-35 ~ +60		
Relative Humidity		0 ~ 100%		
Max. Operating Altitude (m)		5000 (>4000 derating)		
Cooling Method		Smart Fan Cooling		
User Interface		LED, LCD (Optional), WLAN + APP		
Communication		RS485 or HPLC		
Communication Protocols		Modbus RTU		
Weight (kg)		124.0		
Dimension (W × H × D mm)		1120 × 810 × 368		
Topology		Non-isolated		
Self-consumption at Night (W)		<3		
Ingress Protection Rating		IP66		
DC Connector ^{*2}		MC4 (4 ~ 10mm ²)		
AC Connector		OT / DT terminal (Max. 400mm ²)		

*1: Nominal Output Power

*2: DC-strings connectors supplied by GoodWe 4-6mm²; 10mm² must be purchased separately.

*: Please visit GoodWe website for the latest certificates.