

UT Series

320/350kW | Three Phase | 12/15 MPPTs

The UT 1500V Series (320/350kW) is GoodWe's new three-phase string inverter designed to increase the profitability of utility-scale projects. Offering options of 12 MPPTs and 15 MPPTs, this series comes with a maximum string input current of 15/20A, thus supporting bifacial 182mm/210mm module access. The Anti-PID (Potential Induced Degradation) and PID-recovery functions are available to mitigate and recover from PID effects. Moreover, designed for harsh outdoor environments, the UT inverter is built to withstand extreme temperatures, with a wide operating range of -35°C to +60°C. With enhanced safety, optimal LCOE, and ensured cost-effectiveness, the high-performance UT inverter provides a future-ready solution for utility-scale PV projects.



Higher Yields

- 20A max. DC input current per string¹
- Anti-PID and PID recovery



Lower Costs

- Reactive power compensation at night
- High-speed Power Line Communication (HPLC) for reduced wiring costs



Superb Safety & Reliability

- IP66 and optional C5 protection
- Full power operation at high temperatures: 350kW@40°C, 320kW@45°C



Grid Friendly

- Stable operation under weak grid conditions: SCR_≥1.2
- Dynamic reactive power response <30ms

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		<3%		
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		Optional		
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 x H x D mm)		1120 x 810 x 368		
Topology		Non-isolated		
Self-consumption at Night (W)		<3		
Ingress Protection Rating		IP66		
DC Connector ^{*1}		MC4 (4 ~ 10mm ²)		
AC Connector		OT / DT terminal (Max. 400mm ²)		

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

*: Please visit GoodWe website for the latest certificates.

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