

UT Series

250/320/350kW | 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	GW250KH-UT	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)	40	30	40	30	40
Max. Short Circuit Current per MPPT (A)	60	50	60	50	60
Number of MPP Trackers	12	15	12	15	12
Number of Strings per MPPT			2		
Output					
Nominal Output Power (kW)	250	320	320	352	352
Nominal Output Apparent Power (kVA)	250	320	320	352	352
Max. AC Active Power (kW)	275	352	352	352	352
Max. AC Apparent Power (kVA)	275	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)	198.5	254.0	254.0	254.0	254.0
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, WLAN + APP		LED, LCD (Optional), WLAN + APP		
Communication	RS485 or PLC		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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