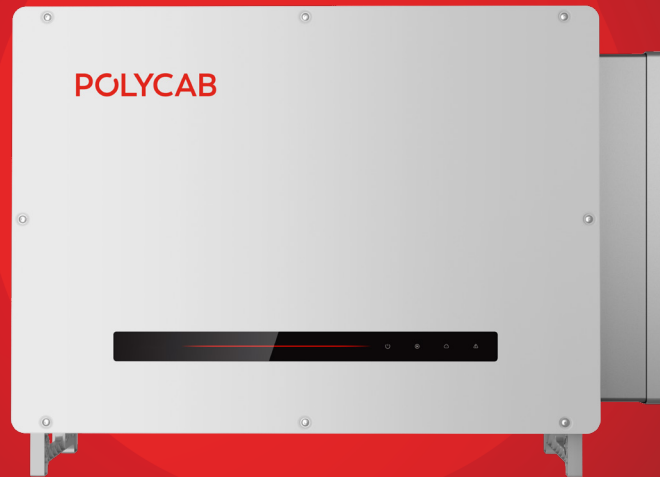


Grid Tie Solar Inverter



UT Series

An ideal choice for PM-KUSUM initiatives & large utility scale, ground mounted PV plants

Three Phase – 12/15 MPPT

Models : PSIT-350K-KH-UT | 350K-K-UT | 320K-KH-UT | 320K-K-UT

Leading Features

Higher Yields	15A/20A max. DC input current per string Anti-PID and PID recovery
Superb Safety & Reliability	IP66 and optional C5 protection Full power operation at high temperatures: 352kW@40°C, 320kW@45°C
Lower Costs	Reactive power compensation at night High-speed Power Line Communication (HPLC) for reduced wiring costs
Grid Friendly	Stable operation under weak grid conditions: SCR≥1.2 Dynamic reactive power response <30ms
Module Compatibility	Compatible with all types of Solar PV modules, including Thin-film modules

THREE PHASE & 12/15 MPPT

PSIT-350K-KH-UT | 350K-K-UT | 320K-KH-UT | 320K-K-UT

TECHNICAL SPECIFICATIONS				
Model	PSIT-350K-KH-UT		PSIT-350K-K-UT	
Rating	350 kW		320 kW	
INPUT				
Max. Input Voltage (Vdc)	1500			
MPPT Operating Voltage Range (Vdc)	480 ~ 1500			
Start-up Voltage (Vdc)	500			
Nominal Input Voltage (Vdc)	1160			
Max. Input Current per MPPT (A)	40	30	40	30
Max. Short Circuit Current per MPPT (A)	60	50	60	50
Number of MPP Trackers	12	15	12	15
Number of Strings per MPPT	2			
OUTPUT				
Nominal Output Power (kW)	352		320	
Nominal Output Apparent Power (kVA)	352kVA@40°C / 320kVA@45°C / 300kVA@50°C		320kVA@45°C / 300kVA@50°C	
Max. AC Active Power (kW)	352			
Max. AC Apparent Power (kVA)	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			
PID Recovery	Integrated			
Anti-PID	Integrated			
Reactive Power Compensation at Night / Q at Night	Integrated			
Power Supply at Night	Integrated			
I-V Curve Scan	Optional			
GENERAL DATA				
Operating Temperature Range (°C)	-35 to 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			
Dimension (W × H × D mm)	1120 × 810 × 368			
Topology	Non-isolated			
Self-consumption at Night (W)	<3			
Ingress Protection Rating	IP66			
DC Connector	MC4 (4 ~ 6mm², 10mm² Optional)			
AC Connector	OT / DT terminal (Max. 400mm²)			
WARRANTY	5 Years Standard ** Extendable up to total 10 Years			

Note : ①②The range of output voltage and frequency may vary depending upon different grid codes as per the government regulations.
Specifications are subject to change without advanced notice. *Conditions Apply based on PV Module Rating. ** On additional charges

