KSTAR
Powering the Future

G Series

Three Phase / On-grid / 50–80 kW

- Max. PV Voltage up to 1100 V
- Type II DC / AC SPD
- Reactive Power Control
- WiFi / Ethernet Plug Optional
- DC / AC Ratio up to 1.5
- IP66 Protection
- High Efficiency up to 98.6%
- Smaller and Lighter



MODEL	G50KT	G60KT	G70KT	G80KT
Input (DC)				
Max. DC Voltage	1100 V			
Nominal Voltage	650 V			
Start Voltage	250 V			
MPPT Voltage Range	200 ~ 1000 V			
Number of MPPT	4			
Strings per MPPT	2	2	3	3
Max. input Current per MPPT	32 A	32 A	45 A	45 A
Max. Short-circuit Current per MPPT	48 A	48 A	60 A	60 A
Output (AC)				
Nominal AC Output Power	50000 W	60000 W	70000 W	80000 W
Max. AC Apparent Power	55000 VA	66000 VA	77000 VA	88000 VA
Nominal AC Voltage	230 / 400 V, 3P+N+PE			
AC Grid Frequency Range	50 Hz / 60 Hz (±5 Hz)			
Max. Output Current (@220V)	83.3 A	100 A	116.7 A	127.5 A
Power Factor (cosΦ)	-0.8 (Lagging) ~ 0.8 (Leading)			
THDi	< 3% (Nominal Power)			
Efficiency				
Max. Efficiency	98.5%	98.5%	98.6%	98.6%
Euro Efficiency	98.2%	98.2%	98.3%	98.3%
Protection Devices				
DC Switch	Yes			
Output Over Current Protection	Yes			
Anti-islanding Protection	Yes			
DC Reverse Polarity Protection	Yes			
String Fault Detection	Optional			
PID Recovery	Optional			
Night SVG	Optional			
DC / AC Surge Protection	Type II			
Residual Current Monitoring	Yes			
AC Short Circuit Protection	Yes			
General Specifications				
Dimensions (W x H x D)	548 x 540 x 289 mm			
Weight	48.7 kg	48.7 kg	52.3 kg	53.2 kg
Operating Temperature Range	–25℃ ~ +60℃			
Cooling Type	Fan Cooling			
Max. Operating Altitude	4000 m			
Max. Operating Humidity	0 ~ 100% (No Condensation)			
AC Output Terminal Type	OT Terminal			
IP Class	IP66			
Topology	Transformerless			
Communication	RS-485 / Wifi / Ethernet			
Display	LCD			
Certification & Standard	EN/IEC 62109-1; EN/IEC 62109-2; IEC/EN 61000-6-1; IEC/EN 61000-6-3; IEC/EN 61000-6-2; IEC/EN 61000-6-4; IEC 61683; IEC 60068; IEC 60529; IEC 62116; IEC 61727; EN 50549-1; NC RfG; VDE-AR-N-4105; VDE 0126; CEI 0-21; NTS V2.1; UNE 217001; UNE 217002			

* To be used with the SDM630MCT-V2 energy meter, users need to select and supply their own CT, with a specification of 1 A or 5 A.

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