Generating Superior Solutions for Energy and More.

KSTAR
Powering the Future



BlueKernel Series NEW

Three Phase / On-grid / 125 kW

- Max. PV Voltage up to 1100 V
- Type II DC / AC SPD
- Compatible for Big Capacity PV Panel
- WiFi Logger Standard / 4G Logger Optional
- DC / AC Ratio up to 1.5
- IP66 Protection
- High Efficiency up to 98.7%
- Smaller and Lighter

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MODEL	G125KT7
Input (DC)	
Max. DC Voltage	1100 V
Max. Input Current per MPPT	45 A
Max. Short-circuit Current per MPPT	60 A
Start Voltage	300 V
MPPT Voltage Range	200 ~ 1000 V
Nominal Voltage	650 V
Number of MPPT	8
Strings per MPPT	2
Output (AC)	
Nominal AC Output Power	125 kW
Max. AC Apparent Power	125 kVA
Nominal AC Voltage	230 / 400 V, 3W +PE, 3W+N+PE
AC Grid Frequency Range	50 Hz / 60 Hz (±5 Hz)
Max. Output Current	181.2 A
Power Factor (cosΦ)	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)
THDi	< 3% (Nominal Power)
Efficiency	
Max. Efficiency	98.7%
Euro Efficiency	98.5%
Protection Devices	
DC Switch	Yes
Anti-islanding Protection	Yes
Output Over Current Protection	Yes
DC Reverse Polarity Protection	Yes
String Fault Detection	Optional
DC / AC Surge Protection	DC Type II; AC Type II
AC Short Circuit Protection	Yes
AFCI Function	Optional
Night SVG Function	Optional
PID Recovery	Optional
Insulation Detection	Yes
Residual Current Monitoring	Yes
General Specifications	
Dimensions (W x H x D)	965 x 700 x 355 mm
Weight	85 kg
Operating Temperature Range	-30 ~ 60℃
Cooling Type	Fan Cooling
Max. Operating Altitude	5000 m (> 4000 m Derating)
Max. Operating Humidity	0 ~ 100%
IP Class	IP66
Noise（dB）	≤ 80 dB
Topology	Transformerless
Communication	RS-485 / PLC / WIFI / Ethernet
Display	LED , Bluetooth + APP
Certification & Standard	IEC 62109-1/-2; EN IEC 61000-6-1/2/3/4; EN IEC 61000-3-11/12; EN IEC 62920; IEC 61727; IEC 62116; IEC 61683; IEC 60068-2-1/2/14/30; EU RoHS Directive; EN 50549-1/2; EN 50549-10; CEI 0-16; NC RFG; C10/11; UNE 217001; UNE 217002; NTS V2.1; PEA/MEA

* 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.