

BlueKernel Series

Three Phase / On-grid / 30 kW



Max. PV Voltage up to 1100 V
Type II DC / AC SPD



Reactive Power Control
WiFi / 4G Plug Optional



DC / AC Ratio up to 1.5
IP66 Protection



High Efficiency up to 98.8%
Smaller and Lighter



MODEL	G30KT7
Input (DC)	
Recommended Max. PV Array Input Power @STC	45 kW
Max. DC Voltage	1100 V
Nominal Voltage	620 V
Start Voltage	200 V
MPPT Voltage Range	120 ~ 1000 V
MPPT Voltage Range (Full load)	550 ~ 850 V
Number of MPPT	3
Max.Number of String per MPPT	2 / 2 / 1
Max. Input Current per MPPT	40 A / 40 A / 20 A
Max. Short-circuit Current per MPPT	50 A / 50 A / 30 A
Output (AC)	
Nominal AC Output Power	30000 W
Max. AC Output apparent Power	33000 VA
Max. AC Output active Power	33000 W
Nominal Voltage	400 / 230 V, 3P+N+PE
AC Grid Frequency Range	50 Hz / 60 Hz
Max. Output Current	50 A
Power Factor (Φ)	0.8 leading - 0.8 lagging
THDi	< 3% (Nominal Power)
Efficiency	
Max. Efficiency	98.8%
Euro Efficiency	98%
Protection devices	
DC Switch	Yes
Output Over Current Protection	Yes
Anti-islanding Protection	Yes
DC Reverse Polarity Protection	Yes
Insulation Detection	Yes
DC / AC Surge Protection	DC:Type III; Type II optional; AC:Type III; Type II optional
Residual Current Monitoring	Yes
AFCI	Optional
PID Recovery	Optional
General Specifications	
Dimensions (W x H x D)	575 x 450 x 225 mm
Weight	24.2 kg
Operating Temperature Range	-30°C ~ +60°C
Cooling Type	Fan cooling
Max. Operating Altitude	5000 m (>4000 m derating)
Max. Operating Humidity	0 ~ 100%
AC Output Terminal Type	OT
IP Class	IP66
Topology	Transformerless
PV Input Terminal Type	MC4
Display	LCD
Certification & Standard	EN/IEC 62109-1/2; IEC/EN 61000-6-2; IEC/EN 61000-6-4; IEC 61683; IEC 60068; IEC 60529; IEC 62116; IEC 61727;