



KSG-120CL

String Grid-Tied PV Inverter



OPTONICA



1100Vdc, 400Vac
Smart I-V Curve Function



10 MPPT Tracker, 20 PV Strings Input
DC and AC Type II SPD



Optional AFCI Function
Optional Night SVG Function



LED+Bluetooth APP
Max.DC/AC ratio up to 1.5

MODEL	KSG-120CL
Input(DC)	
Max. DC voltage	1100V
Nominal voltage	620V
Min./Startup voltage	250V
MPPT voltage range	200V-1000V
MPPT voltage range at full load	550V-850V
Number of MPPT	10
No. of Strings per MPPT	2
Number of strings input	20
Max. input current per MPPT	30A
Max. short-circuit current per MPPT	50A
Output(AC)	
Nominal AC output power	120kW@30 °C / 110kW@40 °C / 100kW@50 °C
Max. AC apparent power	121kVA
Max. AC output power	121kW
Nominal AC voltage	320-480Vac / 3W+PE / 3W+N+PE
AC grid frequency range	45-55Hz / 55-65Hz
Rated output current	158.8A
Max. output current	174.6A
Power factor (cos Φ)	0.8leading-0.8lagging
THDi	<3%
Efficiency	
Max. efficiency	98.7%
Euro efficiency	98.3%
Protection devices	
DC switch	Yes
Anti-islanding protection	Yes
Output over current	Yes
DC reverse polarity protection	Yes
String fault Detection	Yes
AC/DC surge protection	Yes
Insulation detection	Yes
AC leakage current fault protection	Yes
I/V Curve scanning	Yes
Anti-PID function	Optional
General Specifications	
Dimensions W x H x D (mm)	1055*700*336
Weight(kg)	93
Operating temperature range	-25 °C ~+60 °C
Cooling type	Fan cooling
Max. operation altitude	4000m (>3000m derating)
Max. operation humidity	0~100%
Night power consumption	<10W
IP class	IP66
Topology	Transformerless
Communication	RS485 /Bluetooth+APP
Display	LED
Certification & Standard	EN/IEC62109-1; EN/IEC62109-2; IEC/EN61000-6-2;IEC/EN61000-6-4;IEC/EN61000-3-11;IEC/EN61000-3-12; IEC61683;IEC60068;IEC60529;IEC62116;IEC61727;EN50549-1;EN50549-2;NB/T32004-2018; GB/T19964-2012

Specifications subject to change without prior notice.