Technical Data

Model	SUN-3K-SG06-LP1-EU-CM1	SUN-5K-SG06-LP1-EU-CM2	SUN-6K-SG06-LP1-EU-CM2	SUN-8K-SG06-LP1-EU-CM3
SKU	SKU:12809	SKU:12806	SKU:12807	SKU:12808
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging/Discharging Current (A)	70	120	135	185
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV access power (W)	6000	10000	12000	16000
Max. PV Input Power (W)	4800	8000	9600	12800
Max. PV Input Voltage (V)	500			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150-425			
Rated PV Input Voltage (V)	370			
Max. Operating PV Input Current (A)	18	18+18		36+18+18
Max. Input Short-Circuit Current (A)	27	27+27		54+27+27
No. of MPP Trackers/ No. of Strings MPP Tracker	1/1	2/1+1		3/2+1+1
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	3000	5000	6000	8000
Max. AC Input/Output Apparent Power(VA)	3300	5500	6600	8800
Rated AC Input/Output Current (A)	13.7/13.1	22.8/21.8	27.3/26.1	36.4/34.8
Max. AC Input/Output Current (A)	15/14.4	25.0/24.0	30/28.7	40/38.3
Max. Continuous AC Passthrough (grid to load) (A)	50			65
Peak Power (off-grid) (W)	2 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated input/output voltage	220/230V 0.85Un-1.1Un L+N+PE			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI)(optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD			
Communication Interface	WIFI, RS485, CAN			
General Data				
Operating Temperature Range (℃)	-40 to +60℃, >45℃ Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	3000m			
Noise (dB)	<45			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated (solar), Isolated (battery)			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	310×460×218 (Excluding Connectors and Brackets)			340×580×234
Weight (kg)	15.6			24.6
Type of Cooling	Natural Cooling			
Warranty	7years (5yrs standard +2yrs extendable) the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			