Model	SUN-30K-G03	SUN-33K-G03	SUN-35K-G03	SUN-40K-G03	SUN-45K-G03	SUN-50K-G03
Input Side						
Max. DC Input Power (kW)	39	42.9	45.5	52	58.5	65
Max. DC Input Voltage (V)	1000					
Start-up DC Input Voltage (V)	250					
MPPT Operating Range (V)	200~850					
Max. DC Input Current (A)	40+40	40+40+40	40+40+40	40+40+40	40+40+40	40+40+40+40
Number of MPPT / Strings per MPPT	2 / 3	3 / 3	3 / 3	3 / 3	3 / 3	4 / 3
Output Side						
Rated Output Power (kW)	30	33	35	40	45	50
Max. Active Power (kW)	33	36.3	38.5	44	49.5	55
Rated AC Grid Voltage (V)	230 / 400					
AC Grid Voltage Range (V)	277Vac~460Vac (this may vary with grid standards)					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Three phase					
Rated AC Grid Output Current (A)	43.5	47.8	50.7	58	65.2	72.4
Max. AC Output Current (A)	47.8	52.8	55.8	63.8	71.7	79.7
Output Power Factor	0.8 leading to 0.8 lagging					
Grid Current THD	<2%					
DC Injection Current (mA)	<0.5%					
Grid Frequency Range	47~52 or 57~62 (Optional)					
Efficiency						
Max. Efficiency	98.7%					
Euro Efficiency	98%					
MPPT Efficiency	>99%					
Protection						
DC Reverse-Polarity Protection	Yes					
AC Short Circuit Protection	Yes					
AC Output Overcurrent Protection	Yes					
Output Overvoltage Protection	Yes					
Insulation Resistance Protection	Yes					
Ground Fault Monitoring	Yes					
Anti-islanding Protection	Yes					
Temperature Protection	Yes					
Integrated DC Switch	Yes					
Remote software upload	Yes					
Remote change of operating parameters	Yes					
Surge protection	DC Type II / AC Type II					
General Data						
Size (mm)	647.5W×537H×303.5D					
Weight (kg)	44.5					
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25~65℃					
Ingress Protection	IP65					
Noise Emission (Typical)	<45 dB					
Cooling Concept	Smart cooling					
Max. Operating Altitude Without Derating	2000m					
Designed Lifetime	>20 years					
Grid Connection Standard	EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2					
Operating Surroundings Humidity	0-100%					
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-3					
Features						
DC Connection	MC-4 mateable					
AC Connection	IP65 rated plug					
Display	LCD 240 × 160					
Interface	RS485/RS232/Wifi/LAN					