

Single Phase String Inverter

SUN- 1.5 / 2.2 / 2.7 / 3 / 3.3 / 3.6 / 4 K-G03



1 MPP tracker, Max. efficiency up to 97.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



Low start-up voltage of 80V







Technical Data

Model	SUN-1.5K-G03	SUN-2.2K-G03	SUN-2.7K-G03	SUN-3K-G03	SUN-3.3K-G03	SUN-3.6K-G03	SUN-4K-G03
Input Side							
Max. DC Input Power (kW)	2	2.9	3.5	3.9	4.3	4.7	5.2
Max. DC Input Voltage (V)	550						
Start-up DC Input Voltage (V)	80						
MPPT Operating Range (V)	70-500						
Max. DC Input Current (A)	20						
Max. Short Circuit Current (A)	30						
No. of MPP Trackers	1						
No. of Strings per MPP Tracker	1						
Output Side							
Rated Output Power (kW)	1.5	2.2	2.7	3	3.3	3.6	4
Max. Active Power (kW)	1.65	2.42	2.97	3.3	3.63	3.96	4.4
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)						
Rated Grid Frequency (Hz)	50 / 60 (Optional)						
Operating Phase	Single phase						
Rated AC Grid Output Current (A)	6.5	9.6	11.7	13	14.3	15.7	17.4
Max. AC Output Current (A)	7.2	10.5	12.9	14.3	15.8	17.2	19.1
Output Power Factor	0.8 leading to 0.8 lagging						
Total Harmonics Current Distortion (THDi)	<3%						
DC Injection Current (mA)	<0.5%						
Grid Frequency Range	45-55 or 55-65 (Optional)						
Efficiency							
Max. Efficiency	97.3%	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
Euro Efficiency	97.1%	97.1%	97.1%	97.3%	97.3%	97.3%	97.3%
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)	280W×310H×184D (Excluding connectors and brackets)						
Weight (kg)	4.8						
Topology	Transformerless						
Internal Consumption	<1W (Night)						
Running Temperature	-25 to +60°C, >45°C derating						
Ingress Protection	IP65						
Noise Emission (Typical)	≤35 dB						
Cooling Concept	Natural cooling						
Max. Operating Altitude Without Derating	2000m						
Warranty	8 years						
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549 NRS 097, RD 140, UNE 217002, G98, G99, VDE-AR-N 4105						
Operating Surroundings Humidity	0-100%						
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
Features							
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						

Single Phase String Inverter

SUN- 3.6 / 4 / 4.2 / 5 / 5.2 / 6 / 6.2 K-G03



-  2 MPP trackers, Max. efficiency up to 97.5%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Low start-up voltage of 80V

Technical Data

Model	SUN-3.6K-G03	SUN-4K-G03	SUN-4.2K-G03	SUN-5K-G03	SUN-5.2K-G03	SUN-6K-G03	SUN-6.2K-G03
Input Side							
Max. DC Input Power (kW)	4.7	5.2	5.5	6.5	6.8	7.8	8.1
Max. DC Input Voltage (V)	550						
Start-up DC Input Voltage (V)	80						
MPPT Operating Range (V)	70-500						
Max. DC Input Current (A)	20+20						
Max. Short Circuit Current (A)	30+30						
No. of MPP Trackers	2						
No. of Strings per MPP Tracker	1+1						
Output Side							
Rated Output Power (kW)	3.6	4	4.2	5	5.2	6	6.2
Max. Active Power (kW)	3.96	4.4	4.62	5.5	5.72	6.6	6.82
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)						
Rated Grid Frequency (Hz)	50 / 60 (Optional)						
Operating Phase	Single phase						
Rated AC Grid Output Current (A)	15.7	17.4	18.3	21.7	22.6	26.1	27
Max. AC Output Current (A)	17.2	19.1	20.1	23.9	24.9	28.7	29.7
Output Power Factor	0.8 leading to 0.8 lagging						
Grid Current THD	<3%						
DC Injection Current (mA)	<0.5%						
Grid Frequency Range	45-55 or 55-65 (Optional)						
Efficiency							
Max. Efficiency	97.3%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%
Euro Efficiency	97.1%	97.3%	97.3%	97.3%	97.3%	97.3%	97.3%
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)	330W×323H×190D (Excluding connectors and brackets)						
Weight (kg)	8						
Topology	Transformerless						
Internal Consumption	<1W (Night)						
Running Temperature	-25 to +60°C, >45°C derating						
Ingress Protection	IP65						
Noise Emission (Typical)	≤35 dB						
Cooling Concept	Natural cooling						
Max. Operating Altitude Without Derating	2000m						
Warranty	8 years						
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G99, VDE-AR-N 4105						
Operating Surroundings Humidity	0-100%						
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
Features							
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						

Three Phase String Inverter

SUN- 4 / 5 / 6 / 7 / 8 / 9 / 10 /12 K-G03



2 MPP trackers, Max. efficiency up to 98.3%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Technical Data

Model	SUN-4K-G03	SUN-5K-G03	SUN-6K-G03	SUN-7K-G03	SUN-8K-G03	SUN-10K-G03	SUN-12K-G03
Input Side							
Max. DC Input Power (kW)	5.2	6.5	7.8	9.1	10.4	13	15.6
Max. DC Input Voltage (V)	1100						
Start-up DC Input Voltage (V)	140						250
MPPT Operating Range (V)	120-1000						200-1000
Max. DC Input Current (A)	20+20						
Max. Short Circuit Current (A)	30+30						
No. of MPP Trackers	2						
No. of Strings per MPP Tracker	1+1						
Output Side							
Rated Output Power (kW)	4	5	6	7	8	10	12
Max. Active Power (kW)	4.4	5.5	6.6	7.7	8.8	11	13.2
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)						
Rated Grid Frequency (Hz)	50 / 60 (Optional)						
Operating Phase	Three phase						
Rated AC Grid Output Current (A)	6.1/5.8	7.6/7.2	9.1/8.7	10.6/10.1	12.1/11.6	15.2/14.5	18.2/17.4
Max. AC Output Current (A)	6.7/6.4	8.3/8	10/9.6	11.7/11.1	13.3/12.8	16.7/15.9	20/19.1
Output Power Factor	0.8 leading to 0.8 lagging						
Grid Current THD	<3%						
DC Injection Current (mA)	<0.5%						
Grid Frequency Range	45-55 or 55-65 (Optional)						
Efficiency							
Max. Efficiency	98.3%						
Euro Efficiency	97.5%						
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)	330W×457H×203D (Excluding connectors and brackets)						
Weight (kg)	11						
Topology	Transformerless						
Internal Consumption	<1W (Night)						
Running Temperature	-25 to +60°C, >45°C derating						
Ingress Protection	IP65						
Noise Emission (Typical)	≤30 dB						
Cooling Concept	Natural cooling						
Max. Operating Altitude Without Derating	4000m						
Warranty	8 years						
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549 NRS 097, RD 140, UNE 217002, G98, G99, VDE 4105						
Operating Surroundings Humidity	0-100%						
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
Features							
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						

Three Phase String Inverter

SUN- 15 K-G03



2 MPP trackers, Max. efficiency up to 98.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Technical Data

Model		SUN-15K-G03
Input Side		
Max. DC Input Power (kW)		19.5
Max. DC Input Voltage (V)		1100
Start-up DC Input Voltage (V)		250
MPPT Operating Range (V)		250-1000
Max. DC Input Current (A)		13+26
Max. Short Circuit Current (A)		19.5+39
Number of MPPT		2
Strings per MPPT		1+2
Output Side		
Rated Output Power (kW)		15
Max. Active Power (kW)		16.5
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V	0.85Un-1.1Un (this may vary with grid standards)
Rated Grid Frequency (Hz)		50 / 60 (Optional)
Operating Phase		Three phase
Rated AC Grid Output Current (A)		22.7/21.7
Max. AC Output Current (A)		25/23.9
Output Power Factor		0.8 leading to 0.8 lagging
Total Harmonics Current Distortion (THDi)		<3%
DC Injection Current (mA)		<0.5%
Grid Frequency Range		45-55 or 55-65 (Optional)
Efficiency		
Euro Efficiency		98.5%
Euro Efficiency		97.5%
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)		333W×472H×203D (Excluding connectors and brackets)
Weight (kg)		15
Topology		Transformerless
Internal Consumption		<1W (Night)
Running Temperature		-25 to +65℉, >45℉ derating
Ingress Protection		IP65
Noise Emission (Typical)		≤40 dB
Cooling Concept		Smart cooling
Max. Operating Altitude Without Derating		4000m
Warranty		8 years
Grid Connection Standard		IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G98, G99, VDE 4105
Operating Surroundings Humidity		0-100%
Safety EMC / Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
Features		
Display		LCD1602
Interface		RS485/RS232/Wifi/LAN


Three Phase String Inverter


SUN- 18 / 20 / 25 K-G05



 2 MPP trackers, Max. efficiency up to 98.6%

 Zero export application, VSG application

 String intelligent monitoring (optional)

 Wide output voltage range

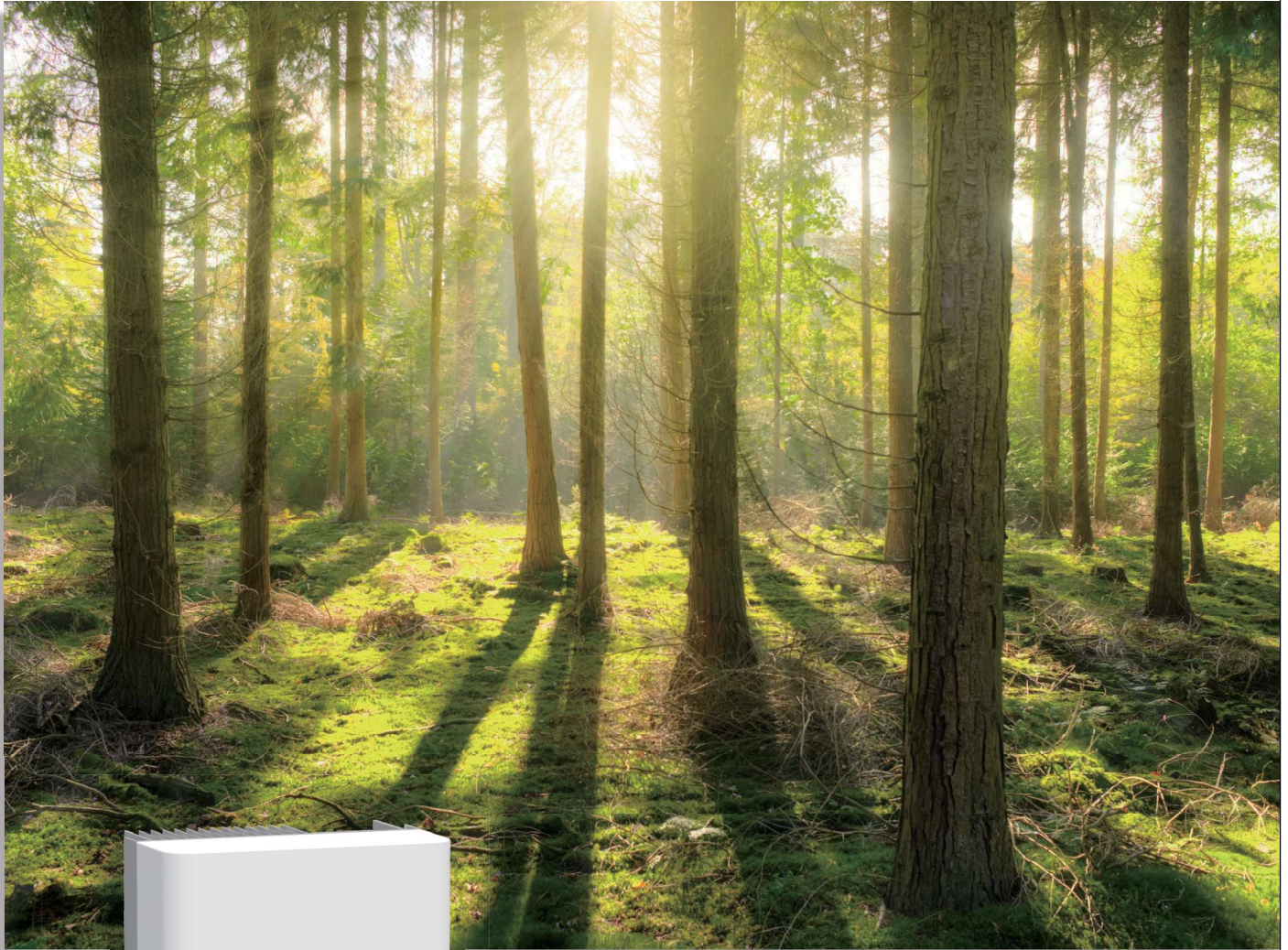
 Anti-PID function (Optional)

Technical Data

Model	SUN-18K-G05	SUN-20K-G05	SUN-25K-G05
Input Side			
Max. DC Input Power (kW)	23.4	26	32.5
Max. DC Input Voltage (V)	1100		
Start-up DC Input Voltage (V)	250		
MPPT Operating Range (V)	200-1000		
Max. DC Input Current (A)	26+26		
Max. Short Circuit Current (A)	39+39		
Number of MPPT	2		
Strings per MPPT	2+2		
Output Side			
Rated Output Power (kW)	18	20	25
Max. Active Power (kW)	19.8	22	27.5
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)		
Rated Grid Frequency (Hz)	50 / 60 (Optional)		
Operating Phase	Three phase		
Rated AC Grid Output Current (A)	27.3/26.1	30.3/29	37.9/36.2
Max. AC Output Current (A)	30/28.7	33.3/31.9	41.7/39.8
Output Power Factor	0.8 leading to 0.8 lagging		
Total Harmonics Current Distortion (THDi)	<3%		
DC Injection Current (mA)	<0.5%		
Grid Frequency Range	45-55 or 55-65 (Optional)		
Efficiency			
Max. Efficiency	98.6%		
Euro Efficiency	97.83%		
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)	362×527×220 (Excluding Connectors and Brackets)		
Weight (kg)	20		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25 to +65°C, >45°C derating		
Ingress Protection	IP65		
Noise Emission (Typical)	≤40 dB		
Cooling Concept	Smart cooling		
Max. Operating Altitude Without Derating	4000m		
Designed Lifetime	8 Years		
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
Features			
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		

Three Phase String Inverter

SUN- 30 / 33 / 35 K-G03



2 MPP trackers, Max. efficiency up to 98.6%



Zero export application, VSG application



String intelligent monitoring



Wide output voltage range



Anti-PID function (Optional)

Technical Data

Model	SUN-30K-G03	SUN-33K-G03	SUN-35K-G03
Input Side			
Max. DC Input Power (kW)	39	42.9	45.5
Max. DC Input Voltage (V)	1100		
Start-up DC Input Voltage (V)	250		
MPPT Operating Range (V)	200-1000		
Max. DC Input Current (A)	40+40		
Max. Short Circuit Current (A)	60+60		
Number of MPPT	2		
Strings per MPPT	3+3		
Output Side			
Rated Output Power (kW)	30	33	35
Max. Active Power (kW)	33	36.3	38.5
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)		
Rated Grid Frequency (Hz)	50 / 60 (Optional)		
Operating Phase	Three phase		
Rated AC Grid Output Current (A)	45.5/43.5	50/47.8	53/50.7
Max. AC Output Current (A)	50/47.9	55/52.6	58.3/55.8
Output Power Factor	0.8 leading to 0.8 lagging		
Total Harmonics Current Distortion (THDi)	<3%		
DC Injection Current (mA)	<0.5%		
Grid Frequency Range	45-55 or 55-65 (Optional)		
Efficiency			
Max. Efficiency	98.6%		
Euro Efficiency	97.8%		
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)	362W×577H×215D (Excluding connectors and brackets)		
Weight (kg)	23		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25 to +65 °C, >45 °C derating		
Ingress Protection	IP65		
Noise Emission (Typical)	≤50 dB		
Cooling Concept	Smart cooling		
Max. Operating Altitude Without Derating	2000m		
Warranty	8 years		
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
Features			
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		

Three Phase String Inverter

SUN-40 / 45 / 50K-G03



Max. 4 MPP trackers,
Max. efficiency up to 98.7%



Zero export application, VSG application



String intelligent monitoring



Wide output voltage range



Anti-PID function (Optional)







Technical Data

Model	SUN-40K-G03	SUN-45K-G03	SUN-50K-G03
Input Side			
Max. DC Input Power (kW)	52	58.5	65
Max. DC Input Voltage (V)	1100		
Start-up DC Input Voltage (V)	250		
MPPT Operating Range (V)	200-1000		
Max. DC Input Current (A)	40+40+40	40+40+40+40	
Max. Short Circuit Current (A)	60+60+60	60+60+60+60	
No. of MPP Trackers	3	4	
No. of Strings per MPP Tracker	3+3+3	3+3+3+3	
Output Side			
Rated Output Power (kW)	40	45	50
Max. Active Power (kW)	44	49.5	55
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)		
Rated Grid Frequency (Hz)	50 / 60 (Optional)		
Operating Phase	Three Phase		
Rated AC Grid Output Current (A)	60.6/58	68.2/65.2	75.8/72.5
Max. AC Output Current (A)	66.7/63.8	75/71.7	83.3/79.7
Output Power Factor	0.8 leading to 0.8 lagging		
Total Harmonics Current Distortion (THDi)	<3%		
DC Injection Current (mA)	<0.5%		
Grid Frequency Range	45-55 or 55-65 (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			
Cabinet Size (WxHxD mm)	434x570x243 (Excluding Connectors and Brackets)		
Weight (kg)	37.1		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25 to +60°C, >45°C Derating		
Ingress Protection	IP65		
Noise Emission (Typical)	≤50 dB		
Cooling Concept	Smart Cooling		
Permissible Altitude (m)	4000		
Warranty	8 Years		
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
Features			
Display	LCD 240 × 160		
Interface	RS485/RS232/Wifi/LAN		

Three Phase String Inverter

SUN-60/70/75/80K-G03



-  4 MPP trackers, Max. efficiency up to 98.7%
-  Zero export application, VSG application
-  String intelligent monitoring
-  Wide output voltage range
-  Anti-PID function(Optional)
-  Type II DC/AC SPD

Technical Data

Model	SUN-60K-G03	SUN-70K-G03	SUN-75K-G03	SUN-80K-G03
Input Side				
Max. DC Input Power (kW)	78	91	97.5	104
Max. DC Input Voltage (V)	1100			
Start-up DC Input Voltage (V)	250			
MPPT Operating Range (V)	200-1000			
Max. DC Input Current (A)	40+40+40+40			
Max. Short Circuit Current (A)	60+60+60+60			
No. of MPP Trackers	4			
No. of Strings per MPP Tracker	3+3+3+3	4+4+4+4		
Output Side				
Rated Output Power (kW)	60	70	75	80
Max. Active Power (kW)	66	77	82.5	88
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)			
Rated Grid Frequency (Hz)	50 / 60 (Optional)			
Operating Phase	Three Phase			
Rated AC Grid Output Current (A)	90.9/87	106.1/101.5	113.6/108.7	121.2/115.9
Max. AC Output Current (A)	100/95.7	116.7/111.6	125/119.6	133.3/127.5
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Total Harmonics Current Distortion (THDI)	<3%			
DC Injection Current (mA)	<0.5%			
Grid Frequency Range	45-55 or 55-65 (Optional)			
Efficiency				
Max. Efficiency	98.7%			
Euro Efficiency	98.3%			
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				
Cabinet Size (WxHxD mm)	700×575×297 (Excluding Connectors and Brackets)			
Weight (kg)	60			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25 to +65°C, >45°C Derating			
Ingress Protection	IP65			
Noise Emission (Typical)	≤50 dB	≤55 dB		
Cooling Concept	Smart Cooling			
Permissible Altitude (m)	2000			
Warranty	8 Years			
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, CEI 0-16, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlijn R25, G99, VDE-AR-N 4105, VDE-AR-N 4110			
Operating Surroundings Humidity	0-100%			
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
Features				
Display	LCD 240 × 160			
Interface	RS485/RS232/Wifi/LAN			

Three Phase String Inverter

SUN- 70 / 80 / 90 / 100 / 110 K-G03



Max. 6 MPP trackers, Max. efficiency up to 98.8%



Zero export application, VSG application



String intelligent monitoring



Wide output voltage range



Anti-PID function



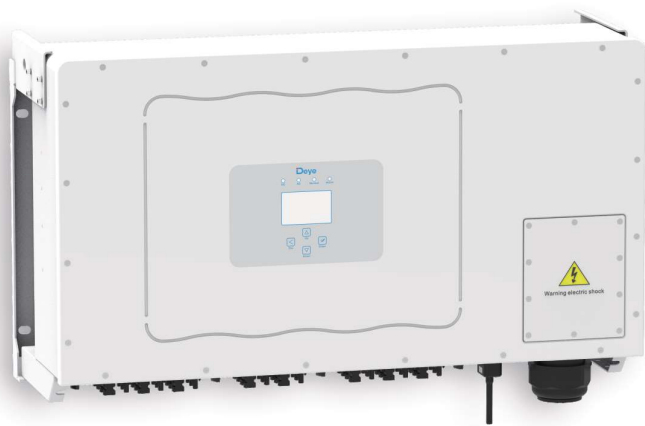
Type II DC/AC SPD

Technical Data

Model	SUN-70K-G03	SUN-80K-G03	SUN-90K-G03	SUN-100K-G03	SUN-110K-G03
Input Side					
Max. DC Input Power (kW)	91	104	135	150	150
Max. DC Input Voltage (V)	1100				
Start-up DC Input Voltage (V)	250				
MPPT Operating Range (V)	200-1000				
Max. DC Input Current (A)	40+40+40+40		40+40+40+40+40+40		
Max. Short Circuit Current (A)	60+60+60+60		60+60+60+60+60+60		
Number of MPPT	4		6		
Strings per MPPT	4+4+4+4		4+4+4+4+4+4		
Output Side					
Rated Output Power (kW)	70	80	90	100	110
Max. Active Power (kW)	77	88	99	110	121
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)				
Rated Grid Frequency (Hz)	50 / 60 (Optional)				
Operating Phase	Three phase				
Rated AC Grid Output Current (A)	106.1/101.5	121.2/115.9	136.4/130.4	151.5/144.9	166.7/159.4
Max. AC Output Current (A)	116.7/111.6	133.3/127.5	150/143.5	166.7/159.4	183.3/175.4
Output Power Factor	0.8 leading to 0.8 lagging				
Total Harmonics Current Distortion (THDi)	<3%				
DC Injection Current (mA)	<0.5%				
Grid Frequency Range	45-55 or 55-65 (Optional)				
Efficiency					
Max. Efficiency	98.7%				
Euro Efficiency	98.3%				
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)	826W×516H×312.7D (Excluding connectors and brackets)				
Weight (kg)	81				
Topology	Transformerless				
Internal Consumption	<1W (Night)				
Running Temperature	-25~65℉, >45℉ derating				
Ingress Protection	IP65				
Noise Emission (Typical)	≤55 dB				
Cooling Concept	Smart cooling				
Max. Operating Altitude Without Derating	4000m				
Warranty	8 years				
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, CEI 0-16, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105, VDE-AR-N 4110				
Operating Surroundings Humidity	0-100%				
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
Features					
Display	LCD 240 × 160				
Interface	RS485/RS232/Wifi/LAN				

Three Phase String Inverter

SUN-120 / 125 / 130 / 135 / 136K-G01P3-EU-AM8



8 MPP trackers,
Max. efficiency up to 98.8%



Zero export application, VSG application



String intelligent monitoring



Wide output voltage range



Anti-PID function



Type II DC/AC SPD

Technical Data

Model	SUN-120K-G01P3 -EU-AM8	SUN-125K-G01P3 -EU-AM8	SUN-130K-G01P3 -EU-AM8	SUN-135K-G01P3 -EU-AM8	SUN-136K-G01P3 -EU-AM8
Input Side					
Max. DC Input Power (kW)	180	187.5	195	202.5	204
Max. DC Input Voltage (V)	1100				
Start-up DC Input Voltage (V)	250				
MPPT Operating Range (V)	200-1000				
Max. DC Input Current (A)	40+40+40+40+40+40+40+40				
Max. Short Circuit Current (A)	60+60+60+60+60+60+60+60				
No.of MPP Trackers	8				
No.of Strings per MPP Tracker	4+4+4+4+4+4+4+4				
Output Side					
Rated Output Power (kW)	120	125	130	135	136
Max. Active Power (kW)	132	135	135	135	136
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)				
Rated Grid Frequency (Hz)	50 / 60 (Optional)				
Operating Phase	Three Phase				
Rated AC Grid Output Current (A)	181.9/174	189.4/181.2	197/188.5	204.6/195.7	206.1/197.2
Max. AC Output Current (A)	200/191.4	204.6/195.7	204.6/195.7	204.6/195.7	206.1/197.2
Output Power Factor	>0.99				
Total Harmonics Current Distortion (THDi)	<3%				
DC Injection Current (mA)	<0.5%				
Grid Frequency Range	45-55 or 55-65 (Optional)				
Efficiency					
Max. Efficiency	98.8%				
Euro Efficiency	98.3%				
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)	1006W×516H×325.5D (Excluding Connectors and Brackets)				
Weight (kg)	103				
Topology	Transformerless				
Internal Consumption	<1W (Night)				
Running Temperature	-25 to +60°C, >45°C Derating				
Ingress Protection	IP65				
Noise Emission (Typical)	≤65 dB				
Cooling Concept	Smart Cooling				
Permissible Altitude (m)	4000				
Designed Lifetime	8 Years				
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, CEI 0-16, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105, VDE-AR-N 4110				
Operating Surroundings Humidity	0-100%				
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
Features					
Display	LCD 240 × 160				
Interface	RS485/RS232/Wifi/LAN				