



World-leading Energy Storage System Provider

Stock Code: 605117.SH







Choose Deye — Choose a Green and Healthy Life

Deye
2022

Single Phase String Inverter

SUN- 1.5 / 2.2 / 2.7 / 3 / 3.3 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

Deye

Stock Code: 605117.SH

Model	SUN-1.5K-G03	SUN-2.2K-G03	SUN-2.7K-G03	SUN-3K-G03	SUN-3.3K-G03
Input Side					
Max. DC Input Power (kW)	2	2.9	3.5	3.9	4.3
Max. DC Input Voltage (V)	550				
Start-up DC Input Voltage (V)	80				
MPPT Operating Range (V)	70~500				
Max. DC Input Current (A)	13				
Max. Short Circuit Current (A)	19.5				
Number of MPPT / Strings per MPPT	1/1				
Output Side					
Rated Output Power (kW)	1.5	2.2	2.7	3	3.3
Max. Active Power (kW)	1.7	2.42	2.97	3.3	3.63
Nominal Output Voltage / Range (V)	L/N/PE 220V/187V-242V, 230V/ 195.5V-253V (Optional)				
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
Max. AC Output Current (A)	7.2	10.5	12.9	14.3	15.8
Output Power Factor	0.8 leading to 0.8 lagging				
Grid Current THD	<3%				
DC Injection Current (mA)	<0.5%				
Grid Frequency Range	47~52 or 57~62 (Optional)				
Efficiency					
Max. Efficiency	97.3%	97.3%	97.3%	97.5%	97.5%
Euro Efficiency	97.1%	97.1%	97.1%	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	Optional				
Remote software upload	Yes				
Remote change of operating parameters	Yes				
Surge protection	DC Type II / AC Type II				
General Data					
Size (mm)	280W×272.5H×184D				
Weight (kg)	4.8				
Topology	Transformerless				
Internal Consumption	<1W (Night)				
Running Temperature	-25~65°C, >45°C derating				
Ingress Protection	IP65				
Noise Emission (Typical)	<25 dB				
Cooling Concept	Natural cooling				
Max. Operating Altitude Without Derating	2000m				
Warranty	8 years				
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11				
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					
DC Connection	MC-4 mateable				
AC Connection	IP65 rated plug				
Display	LCD1602				
Interface	RS485/RS232/Wifi/LAN				

Single Phase String Inverter

SUN- 3.6 / 4.2 / 5.2 / 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

Deye

Stock Code: 605117.SH

Model	SUN-3.6K-G03	SUN-4.2K-G03	SUN-5.2K-G03	SUN-6.2K-G03
Input Side				
Max. DC Input Power (kW)	4.7	5.5	6.5	7.8
Max. DC Input Voltage (V)	550			
Start-up DC Input Voltage (V)	80			
MPPT Operating Range (V)	70~500			
Max. DC Input Current (A)	13+13			
Max. Short Circuit Current (A)	19.5+19.5			
Number of MPPT / Strings per MPPT	2/1			
Output Side				
Rated Output Power (kW)	3.6	4.2	5.2	6.2
Max. Active Power (kW)	3.96	4.62	5.72	6.82
Nominal Output Voltage / Range (V)	L/N/PE 220V/187V-242V, 230V/ 195.5V-253V (Optional)			
Rated Grid Frequency (Hz)	50 / 60 (Optional)			
Operating Phase	Single phase			
Rated AC Grid Output Current (A)	15.7	18.3	22.6	27
Max. AC Output Current (A)	17.2	20.1	24.9	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	47~52 or 57~62 (Optional)			
Efficiency				
Max. Efficiency	97.3%	97.5%	97.5%	97.5%
Euro Efficiency	97.1%	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	Optional			
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			
Weight (kg)	7.5			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25~65°C, >45°C derating			
Ingress Protection	IP65			
Noise Emission (Typical)	<25 dB			
Cooling Concept	Natural cooling			
Max. Operating Altitude Without Derating	2000m			
Warranty	8 years			
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11			
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				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD1602			
Interface	RS485/RS232/Wifi/LAN			

Three Phase String Inverter

SUN- 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)

Deye

Stock Code: 605117.SH

Model	SUN-6K-G03	SUN-7K-G03	SUN-8K-G03	SUN-9K-G03	SUN-10K-G03	SUN-12K-G03
Input Side						
Max. DC Input Power (kW)	7.8	9.1	10.4	11.7	13	15.6
Max. DC Input Voltage (V)	1000					
Start-up DC Input Voltage (V)	140					250
MPPT Operating Range (V)	120~850					200~850
Max. DC Input Current (A)	13+13					
Max. Short Circuit Current (A)	19.5+19.5					
Number of MPPT / Strings per MPPT	2/1					
Output Side						
Rated Output Power (kW)	6	7	8	9	10	12
Max. Active Power (kW)	6.6	7.7	8.8	9.9	11	13.2
Nominal Output Voltage / Range (V)	3L/N/PE 380V/323V-418V, 400V/340V-440V					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Three phase					
Rated AC Grid Output Current (A)	8.7	10.1	11.6	13	14.5	17.4
Max. AC Output Current (A)	9.6	11.2	12.8	14.3	15.9	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	47~52 or 57~62 (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×185D					330×457×205
Weight (kg)	10					11
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25~65°C, >45°C derating					
Ingress Protection	IP65					
Noise Emission (Typical)	<25 dB					
Cooling Concept	Natural cooling					
Max. Operating Altitude Without Derating	2000m					
Warranty	8 years					
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11					
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						
DC Connection	MC-4 mateable					
AC Connection	IP65 rated plug					
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)

Deye

Stock Code: 605117.SH

Model	SUN-15K-G03
Input Side	
Max. DC Input Power (kW)	19.5
Max. DC Input Voltage (V)	1000
Start-up DC Input Voltage (V)	250
MPPT Operating Range (V)	200~850
Max. DC Input Current (A)	13+26
Max. Short Circuit Current (A)	19.5+39
Number of MPPT / Strings per MPPT	2/1+2
Output Side	
Rated Output Power (kW)	15
Max. Active Power (kW)	16.5
Nominal Output Voltage / Range (V)	3L/N/PE 380V/323V-418V, 400V/340V-440V
Rated Grid Frequency (Hz)	50 / 60 (Optional)
Operating Phase	Three phase
Rated AC Grid Output Current (A)	21.7
Max. AC Output Current (A)	23.9
Output Power Factor	0.8 leading to 0.8 lagging
Grid Current THD	<3%
DC Injection Current (mA)	<0.5%
Grid Frequency Range	47~52 or 57~62 (Optional)
Efficiency	
Max. 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×202D
Weight (kg)	15
Topology	Transformerless
Internal Consumption	<1W (Night)
Running Temperature	-25~65°C, >45°C derating
Ingress Protection	IP65
Noise Emission (Typical)	<40 dB
Cooling Concept	Smart cooling
Max. Operating Altitude Without Derating	2000m
Warranty	8 years
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11
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	
DC Connection	MC-4 mateable
AC Connection	IP65 rated plug
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 (optional)



Wide output voltage range



Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

Three Phase String Inverter

SUN- 40 / 45 / 50 / 60 K-G03



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



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

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)	1000		
Start-up DC Input Voltage (V)	250		
MPPT Operating Range (V)	200~850		
Max. DC Input Current (A)	40+40		
Max. Short Circuit Current (A)	60+60		
Number of MPPT / Strings per MPPT	2/3		
Output Side			
Rated Output Power (kW)	30	33	35
Max. Active Power (kW)	33	36.3	38.5
Nominal Output Voltage / Range (V)	3L/N/PE 380V/323V-418V, 400V/340V-440V		
Rated Grid Frequency (Hz)	50 / 60 (Optional)		
Operating Phase	Three phase		
Rated AC Grid Output Current (A)	43.5	47.8	50.7
Max. AC Output Current (A)	47.9	52.6	55.8
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<3%		
DC Injection Current (mA)	<0.5%		
Grid Frequency Range	47~52 or 57~62 (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)	362Wx577Hx215D		
Weight (kg)	25.5		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25~65°C, >45°C derating		
Ingress Protection	IP65		
Noise Emission (Typical)	<45 dB		
Cooling Concept	Smart cooling		
Max. Operating Altitude Without Derating	2000m		
Warranty	8 years		
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11		
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			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
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 98.7%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



Type II DC/AC SPD

Deye

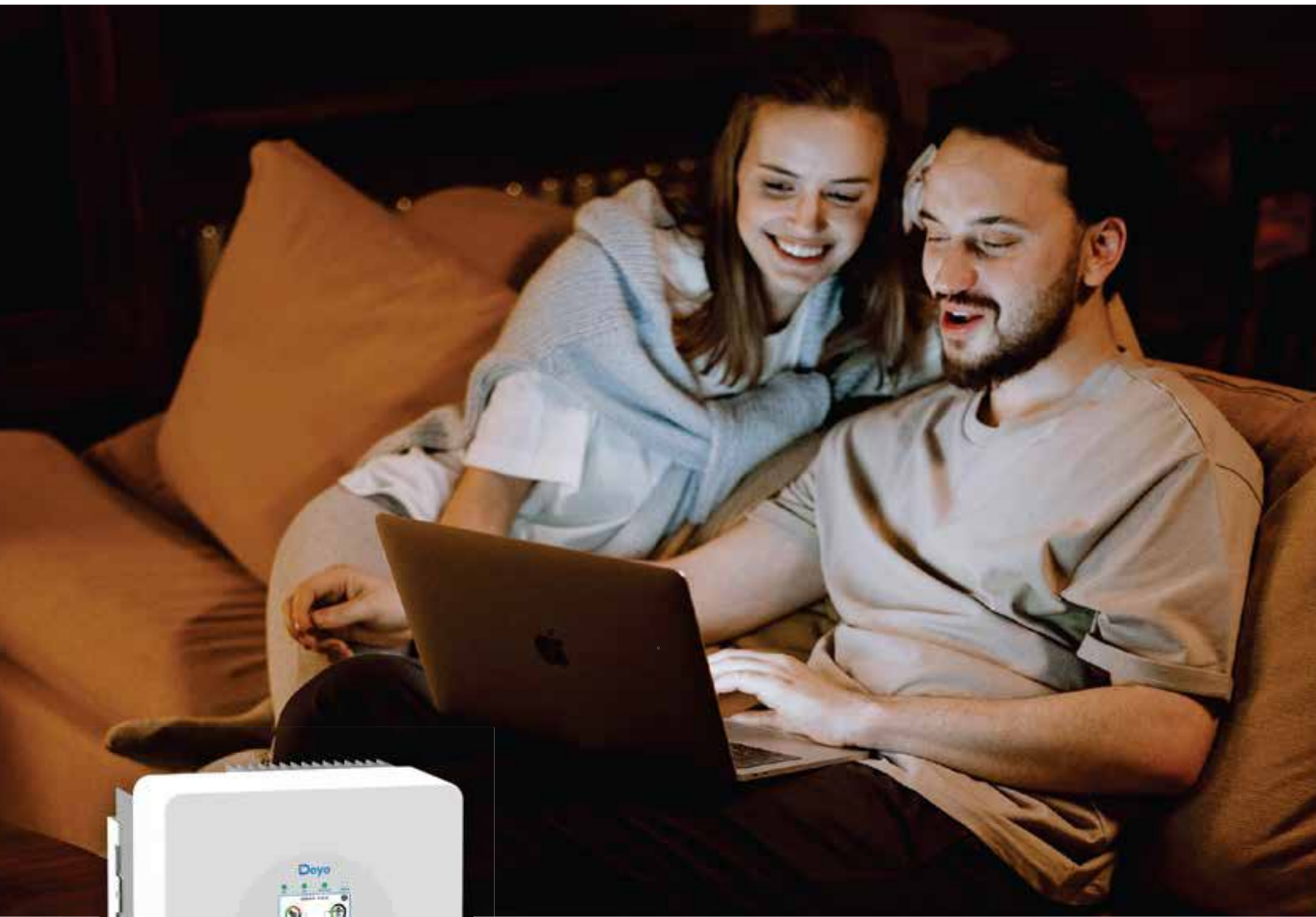
Stock Code: 605117.SH

Model	SUN-40K-G03	SUN-45K-G03	SUN-50K-G03	SUN-60K-G03
Input Side				
Max. DC Input Power (kW)	52	58.5	65	78
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	
Max. Short Circuit Current (A)	60+60+60		60+60+60+60	
Number of MPPT / Strings per MPPT	3/3		4/3	
Output Side				
Rated Output Power (kW)	40	45	50	60
Max. Active Power (kW)	44	49.5	55	66
Nominal Output Voltage / Range (V)	3L/N/PE 380V/323V-418V, 400V/340V-440V			
Rated Grid Frequency (Hz)	50 / 60 (Optional)			
Operating Phase	Three phase			
Rated AC Grid Output Current (A)	58	65.2	72.4	87
Max. AC Output Current (A)	63.8	71.7	79.7	95.7
Output Power Factor	0.8 leading to 0.8 lagging			
Grid Current THD	<3%			
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°C, >45°C derating			
Ingress Protection	IP65			
Noise Emission (Typical)	<45 dB			
Cooling Concept	Smart cooling			
Max. Operating Altitude Without Derating	2000m			
Warranty	8 years			
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11			
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				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD 240 × 160			
Interface	RS485/RS232/Wifi/LAN			

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)	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		
Max. Short Circuit Current (A)	60+60+60+60		60+60+60+60+60+60		
Number of MPPT / Strings per MPPT	4/4		6/4		
Output Side					
Rated Output Power (kW)	70	80	90	100	110
Max. Active Power (kW)	77	88	99	110	121
Nominal Output Voltage / Range (V)	3L/N/PE 380V/323V-418V, 400V/340V-440V				
Rated Grid Frequency (Hz)	50 / 60 (Optional)				
Operating Phase	Three phase				
Rated AC Grid Output Current (A)	101.5	115.9	130.4	144.9	159.4
Max. AC Output Current (A)	111.6	127.5	143.5	159.4	175.4
Output Power Factor	0.8 leading to 0.8 lagging				
Grid Current THD	<3%				
DC Injection Current (mA)	<0.5%				
Grid Frequency Range	47~52 or 57~62 (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)	838W×568H×323D				
Weight (kg)	73.7				
Topology	Transformerless				
Internal Consumption	<1W (Night)				
Running Temperature	-25~65°C, >45°C derating				
Ingress Protection	IP65				
Noise Emission (Typical)	<55 dB				
Cooling Concept	Smart cooling				
Max. Operating Altitude Without Derating	2000m				
Warranty	8 years				
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11				
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					
DC Connection	MC-4 mateable				
AC Connection	IP65 rated plug				
Display	LCD 240 × 160				
Interface	RS485/RS232/Wifi/LAN				

Hybrid Inverter

SUN- 3 / 3.6 / 5 / 6 K-SG04LP1-EU



Colorful touch LCD, IP65 protection degree

6

6 time periods for battery charging/discharging

120

Max. charging/discharging current of 135A

16

Frequency droop control, Max.16pcs parallel



DC couple and AC couple to retrofit existing solar system



Support storing energy from diesel generator

Deye



Clean Power For You

Model	SUN-3K-SG04LP1-24-EU	SUN-3K-SG04LP1-EU	SUN-3.6K-SG04LP1-EU	SUN-5K-SG04LP1-EU	SUN-6K-SG04LP1-EU
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	20~30	40~60			
Max. Charging Current (A)	140	70	90	120	135
Max. Discharging Current (A)	140	70	90	120	135
Charging Curve	3 Stages / Equalization				
External Temperature Sensor	Yes				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
PV String Input Data					
Max. DC Input Power (W)	3900		4680	6500	7800
Rated PV Input Voltage (V)	370				
Max. PV Input Voltage (V)	500				
Min. PV Input Voltage (V)	125				
Start-up Voltage (V)	125				
MPPT Range (V)	150-425				
Full Load DC Voltage Range (V)	250-425				
PV Input Current (A)	13			13+13	
Max. PV ISC (A)	17			17+17	
Number of MPPT / Strings per MPPT	1/1			2/1+1	
AC Output Data					
Rated AC Output and UPS Power (W)	3000		3600	5000	6000
Max. AC Output Power (W)	3300		3960	5500	6600
Peak Power (off grid)	2 times of rated power, 10 S				
AC Output Rated Current (A)	13.6/13		16.4/15.7	22.7/21.7	21.3/26.1
Max. AC Current (A)	15/14.3		18/17.2	25/23.9	30/28.7
Max. Continuous AC Passthrough (A)	35				40
Power Factor	0.8 leading to 0.8 lagging				
Output Frequency and Voltage	50/60Hz; 220/230Vac (single phase)				
Grid Type	Single Phase				
Current Harmonic Distortion	THD<3% (Linear load<1.5%)				
Efficiency					
Max. Efficiency	97.60%				
Euro Efficiency	96.50%				
MPPT Efficiency	99.90%				
Protection					
PV Input Lightning Protection	Integrated				
Anti-islanding Protection	Integrated				
PV String Input Reverse Polarity Protection	Integrated				
Insulation Resistor Detection	Integrated				
Residual Current Monitoring Unit	Integrated				
Output Over Current Protection	Integrated				
Output Shorted Protection	Integrated				
Output Over Voltage Protection	Integrated				
Surge protection	DC Type II / AC Type II				
Certifications and Standards					
Grid Connection Standard	EN50549-1, VDE0126, IEC61727, VDEN4105, G99, CEI0-21, NRS097, NBR16149/16150, RD1699				
Safety EMC / Standard	IEC62109-1/-2				
General Data					
Operating Temperature Range (°C)	-25~60°C, >45°C Derating				
Cooling	Natural cooling				
Noise (dB)	<30 dB				
Communication with BMS	RS485; CAN				
Weight (kg)	14				
Size (mm)	365.5Wx470.5Hx261D				
Protection Degree	IP65				
Installation Style	Wall-mounted				
Warranty	5 years				

Three Phase Hybrid Inverter

SUN- 6 / 8 / 10 / 12 K-SG04LP3-EU/AU



- 100%** 100% unbalanced output, each phase
Max. output up to **50%** rated power
- 48** 48V low voltage battery, transformer isolation design
- 6** 6 time periods for battery charging/discharging
- 240** Max. charging/discharging current of 240A
- 16** Frequency droop control, Max.16pcs parallel
-  DC couple and AC couple to retrofit existing solar system
-  Support storing energy from diesel generator

Deye

Clean Power For You

Model	SUN-6K-SG04LP3 -EU/AU	SUN-8K-SG04LP3 -EU/AU	SUN-10K-SG04LP3 -EU/AU	SUN-12K-SG04LP3 -EU/AU
Battery Input Data				
Battery Type	Lead-acid or Li-Ion			
Battery Voltage Range (V)	40~60			
Max. Charging Current (A)	150	190	210	240
Max. Discharging Current (A)	150	190	210	240
Charging Curve	3 Stages / Equalization			
External Temperature Sensor	Yes			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
PV String Input Data				
Max. DC Input Power (W)	7800	10400	13000	15600
PV Input Voltage (V)	550 (150~800)			
MPPT Range (V)	200-650			
Start-up Voltage (V)	160			
PV Input Current (A)	13+13	13+13	26+13	26+13
Max. PV ISC (A)	17+17	17+17	34+17	34+17
No.of MPPT Trackers	2			
No.of Strings Per MPPT Tracker	1+1	1+1	2+1	2+1
AC Output Data				
Rated AC Output and UPS Power (W)	6000	8000	10000	12000
Max. AC Output Power (W)	6600	8800	11000	13200
Peak Power (off grid)	2 times of rated power, 10 S			
AC Output Rated Current (A)	9	12	15	18
Max. AC Current (A)	13.5	18	23	27
Max. Continuous AC Passthrough (A)	50			
Output Frequency and Voltage	50/60Hz; 230/400Vac (Three phase)			
Grid Type	Three Phase			
Current Harmonic Distortion	THD<3% (Linear load<1.5%)			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	97.00%			
MPPT Efficiency	99.90%			
Protection				
PV Input Lightning Protection	Integrated			
Anti-islanding Protection	Integrated			
PV String Input Reverse Polarity Protection	Integrated			
Insulation Resistor Detection	Integrated			
Residual Current Monitoring Unit	Integrated			
Output Over Current Protection	Integrated			
Output Shorted Protection	Integrated			
Output Over Voltage Protection	Integrated			
Surge protection	DC Type II / AC Type II			
Certifications and Standards				
Grid Regulation	IEC61727, IEC62116, IEC60068, IEC61683, NRS 097-2-1			
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12			
General Data				
Operating Temperature Range (°C)	-25~60°C, >45°C Derating			
Cooling	Smart cooling			
Noise (dB)	<45 dB			
Communication with BMS	RS485; CAN			
Weight (kg)	34.5			
Size (mm)	422W×658H×281D			
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 years			

Deye

Clean Powe-r For You

Ningbo Deye Inverter Technology Co., Ltd.

Add: No. 26 South Yongjiang Road, Daqi, Beilun, Ningbo, Zhejiang, China.

Tel: 0086-0574-86228841 | Fax: 0086-0574-86228852

E-mail: market@deye.com.cn | Web: www.deyeinverter.com



Note: The technical data above mentioned may be updated or revised due to product development. The data in this brochure is subject to change without notice. The latest datasheet and catalogue can be acquired via market@deye.com.cn

Ver: 3.2 - 2022