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Deye 德業®

Ningbo Deye Inverter Technology Co.,Ltd.
Add:No.26-30, SouthYongjiangRoad, Beilun,
315806, Ningbo, China.

👤 Tel: 0086-0574-86120560

Fax: 0086-0574-86228852

✉ E-mail: jiangtao@deye.com.cn

🌐 Web: www.deyeinverter.com

www.deye.com.cn

deyeinverter.en.alibaba.com



Solar Inverter

——Series Album

Choose Deye——Clean Power for You
Choose a Green and Healthy Life

Deye 德業®



About Deye

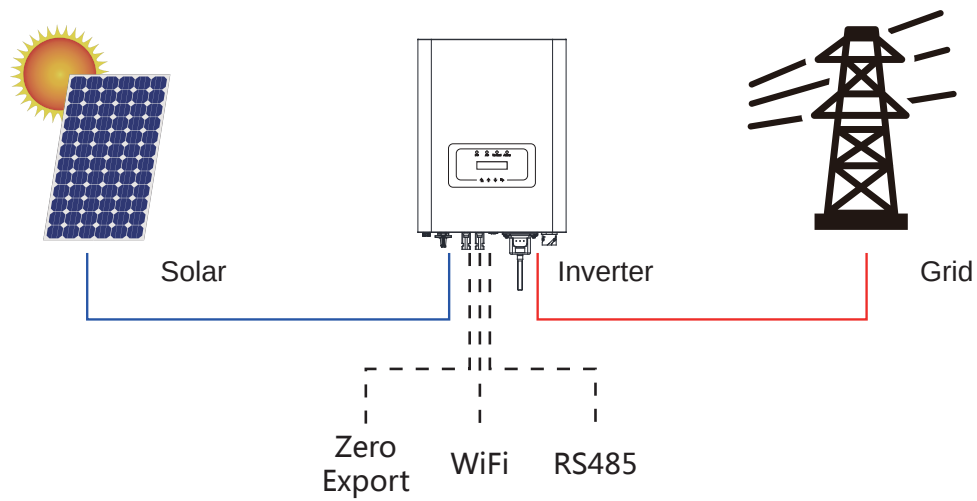
Ningbo Deye Inverter Technology Co., Ltd. is a high-tech enterprise belongs to Deye technology group. We have always been committed to the research and development the production of solar inverter and continue to pursue technological innovation. With accurate MPPT algorithm technology, according to the weather conditions to play the maximum efficiency of energy storage and household use, to achieve maximum spontaneous use; Enhanced SVPWM -> DPWM and improve the conversion efficiency of 0.5%; Convenient design and simple installation; Support CAN, RS485, WiFi and GPRS communication; Outdoor IP65 protection level; Have a variety of protection functions; Long design life and warranty time, etc.

Our main products are string inverter, microinverter, hybrid inverter, etc. With a strong research and production capacity, we sell solar inverter to Europe, South America, Australia, Southeast Asia, Africa and other 46 countries and regions. At present we have become one of major global suppliers for solar inverter.

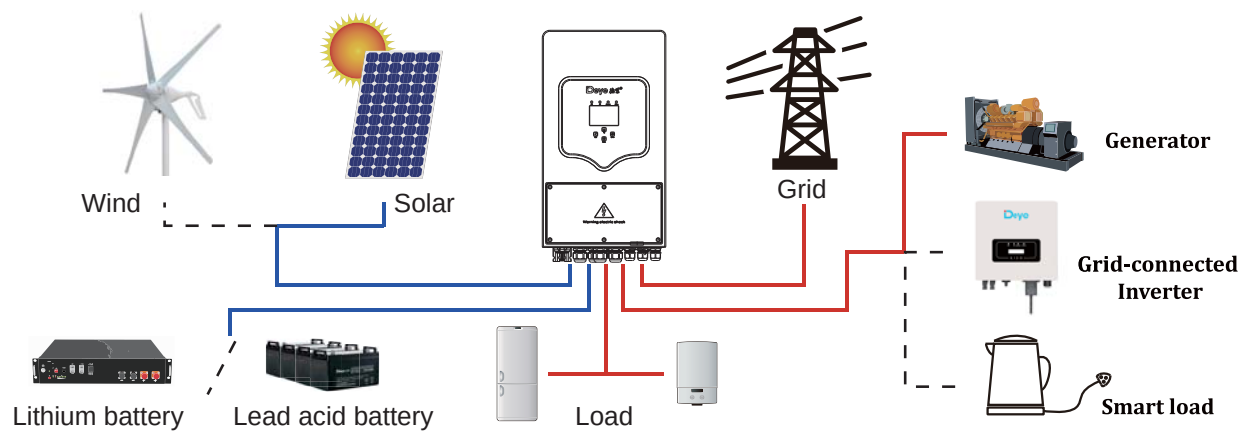
In the self-improvement, change and innovation, the pursuit of excellence, Deye will work with partners hand in hand for a better future!

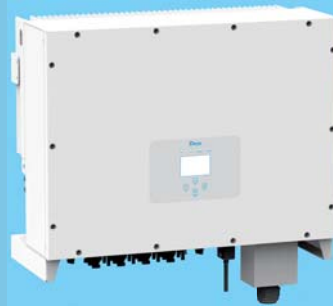


String inverter block diagram

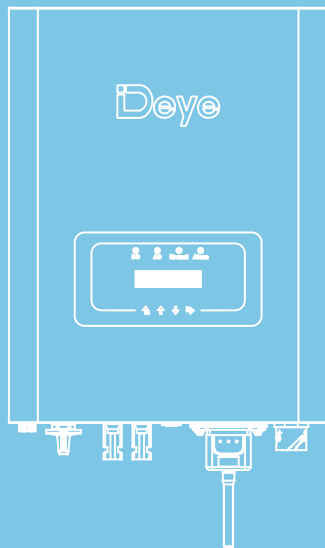


Hybrid inverter block diagram





String Inverter



Single Phase

SUN- 1 / 2 / 3 K-G

SUN- 3.6 / 5 / 6 / 8 K-G

Three Phase

SUN- 5 / 6 / 7 / 8 / 10 K-G03

SUN- 12 / 15 / 18 K-G03

SUN- 20 / 25 K-G02

SUN- 30 / 33 / 35 / 40 / 50 K-G02

SUN- 30 / 33 / 35 / 40 / 50 K-G

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



Single Phase

SUN- 1 / 2 / 3 K-G



Max. Efficiency
97.5%



1 MPPT



RS485/RS232



IP65
Ingress Protection



Zero Export

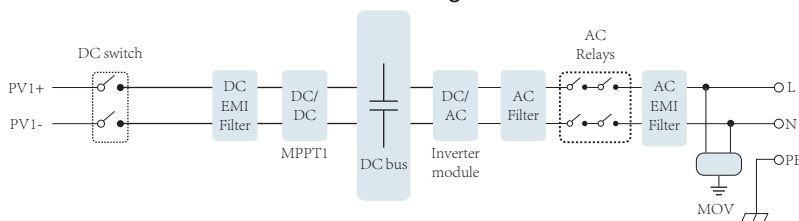


High Surge
Endurance

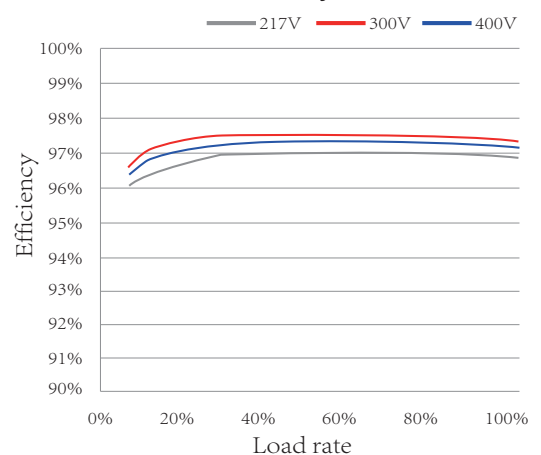


High Power
Factor

Circuit block diagram



Efficiency curve



Technical Specifications

Model	SUN-1K-G	SUN-2K-G	SUN-3K-G
Energy source	Grid-connected PV		
Input Side			
Max.DC Power(kW)	1.3	2.6	3.6
Max.DC Input Voltage(V)	500		
Start-up DC Input Voltage(V)	80	120	120
MPPT Operating Range(V)	70~500	100~500	100~500
Max.DC Input Current(A)	10		
Number of MPPT/ Strings per MPPT	1/1		
Output Side			
Rated Output Power(kW)	1	2	3
Max.Active Power(kW)	1.1	2.2	3.3
Rated AC Grid Voltage(V)	230		
AC Grid Voltage Range(V)	160~300		
Rated Grid Frequency(Hz)	50/60 (Optional)		
Operating Phase	Single phase		
Rated AC Grid Output Current(A)	4.3	8.7	13.1
Max.AC Output Current(A)	4.7	9.6	14
Output Power Factor	>0.99		
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%	97.5%
Euro Efficiency	97.1%	97.1%	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		
Surge Protection	Yes		
Islanding Protection	Yes		
Temperature Protection	Yes		
Integrated DC Switch	Optional		
General Data			
Size(mm)	330W×310H×115D		
Weight(kg)	6		
Topology	Transformerless		
Internal Consumption	<1W(Night)		
Running Temperature	-25~60℃		
Ingress Protection	IP65		
Noise Emission(Typical)	<30 dB		
Cooling Concept	Intelligent cooling		
Max. Operating Altitude Without Derating	2000m		
Designed Lifetime	>20 years		
Grid Connection Standard	EN50438,IEC61727,VDE4105,NB/T32004(CQC),IEC62109-1-2		
Operating Surroundings Humidity	0-100%		
Stafty EMC /Standard	IEC62109-1/-2,EN61000-6-1,EN61000-6-3		
Features			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232		

Single Phase

SUN- 3.6 / 5 / 6 / 8 K-G



Max. Efficiency
97.5%



2 MPPT



RS485/RS232



IP65
Ingress Protection



Zero Export

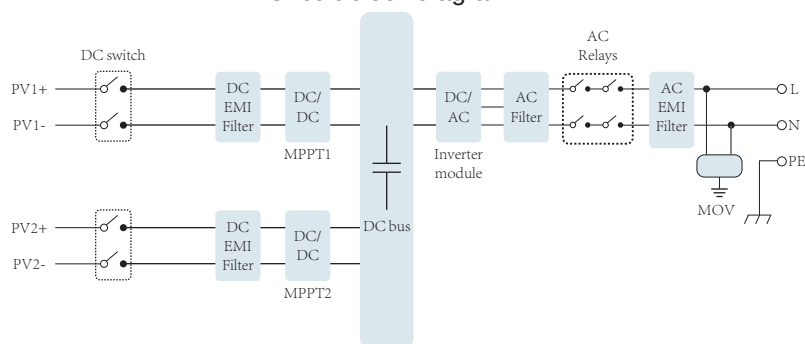


High Surge
Endurance

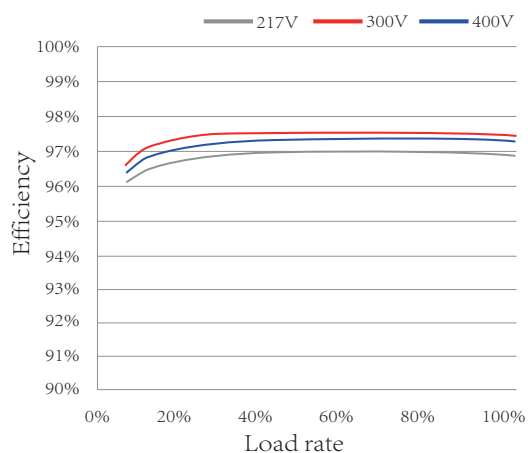


High Power
Factor

Circuit block diagram



Efficiency curve



Technical Specifications

Model	SUN-3.6K-G	SUN-5K-G	SUN-6K-G	SUN-8K-G
Energy source	Grid-connected PV			
Input Side				
Max.DC Power(kW)	4.68	6.5	6.6	8.8
Max.DC Input Voltage(V)	500			
Start-up DC Input Voltage(V)	120			
MPPT Operating Range(V)	100~500			
Max.DC Input Current(A)	10+10	10+10	10+10	10+20
Number of MPPT/ Strings per MPPT	2/1	2/1	2/1	2/1+2
Output Side				
Rated Output Power(kW)	3.6	5	6	8
Max.Active Power(kW)	4	5.5	6.6	8.8
Rated AC Grid Voltage(V)	230			
AC Grid Voltage Range(V)	180~300			
Rated Grid Frequency(Hz)	50/60 (Optional)			
Operating Phase	Single phase			
Rated AC Grid Output Current(A)	16	22	26	35
Max.AC Output Current(A)	18	24	29	39
Output Power Factor	>0.99			
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%	97.7%
Euro Efficiency	97.1%	97.3%	97.3%	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			
Surge Protection	Yes			
Islanding Protection	Yes			
Temperature Protection	Yes			
Integrated DC Switch	Optional			
General Data				
Size(mm)	330W×310H×172D			
Weight(kg)	11			
Topology	Transformerless			
Internal Consumption	<1W(Night)			
Running Temperature	-25~60℃			
Ingress Protection	IP65			
Noise Emission(Typical)	<30 dB			
Cooling Concept	Intelligent cooling			
Max. Operating Altitude Without Derating	2000m			
Designed Lifetime	>20 years			
Grid Connection Standard	EN50438,IEC61727,VDE4105,NB/T32004(CQC),IEC62109-1-2			
Operating Surroundings Humidity	0-100%			
Stafty EMC /Standard	IEC62109-1/-2,EN61000-6-1,EN61000-6-3			
Features				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD1602			
Interface	RS485/RS232			

Three Phase

SUN- 5 / 6 / 7 / 8 /10 K-G03



Max. Efficiency
98.3%



2 MPPT



RS485/RS232



IP65
Ingress Protection



Zero Export

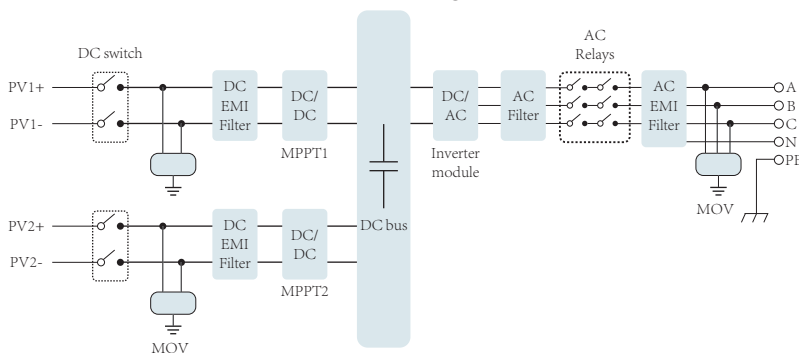


High Surge
Endurance

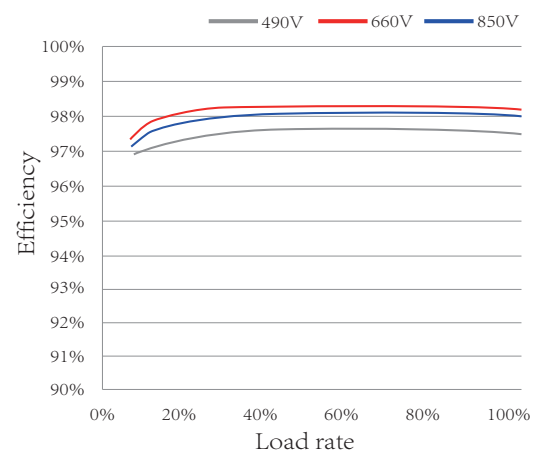


High Power
Factor

Circuit block diagram



Efficiency curve



Technical Specifications

Model	SUN-5K-G03	SUN-6K-G03	SUN-7K-G03	SUN-8K-G03	SUN-10K-G03
Energy source	Grid-connected PV				
Input Side					
Max.DC Power(kW)	6.5	7.8	9.1	10.4	12
Max.DC Input Voltage(V)	1000				
Start-up DC Input Voltage(V)	250				
MPPT Operating Range(V)	200~800				
Max.DC Input Current(A)	10+10				
Number of MPPT/ Strings per MPPT	2/1				
Output Side					
Rated Output Power(kW)	5	6	7	8	10
Max.Active Power(kW)	5.5	6.6	7.7	8.8	11
Rated AC Grid Voltage(V)	380/400				
AC Grid Voltage Range(V)	277~460				
Rated Grid Frequency(Hz)	50/60 (Optional)				
Operating Phase	Three phase				
Rated AC Grid Output Current(A)	7.2	8.7	10.1	11.6	14.5
Max.AC Output Current(A)	8	9.57	11.11	12.76	16
Output Power Factor	>0.99				
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				
Surge Protection	Yes				
Islanding Protection	Yes				
Temperature Protection	Yes				
Integrated DC Switch	Optional				
General Data					
Size(mm)	330W×430H×177D				
Weight(kg)	15				
Topology	Transformerless				
Internal Consumption	<1W(Night)				
Running Temperature	-25~60℃				
Ingress Protection	IP65				
Noise Emission(Typical)	<30 dB				
Cooling Concept	Intelligent cooling				
Max. Operating Altitude Without Derating	2000m				
Designed Lifetime	>20 years				
Grid Connection Standard	EN50438,IEC61727,VDE4105,NB/T32004(CQC),IEC62109-1-2				
Operating Surroundings Humidity	0-100%				
Stafty EMC /Standard	IEC62109-1/-2,EN61000-6-1,EN61000-6-3				
Features					
DC Connection	MC-4 mateable				
AC Connection	IP65 rated plug				
Display	LCD1602				
Interface	RS485/RS232				

Three Phase

SUN- 12 / 15 / 18 K-G03



Max. Efficiency
98.5%



2 MPPT



RS485/RS232



Internal SPD



Zero Export



IP65
Ingress Protection

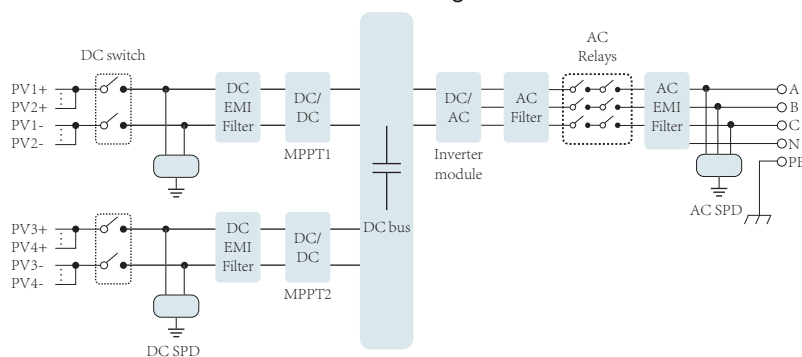


High Power
Factor

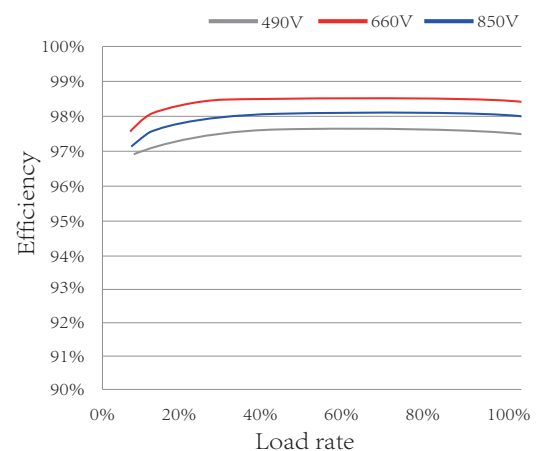


High Surge
Endurance

Circuit block diagram



Efficiency curve



Technical Specifications

Model	SUN-12K-G03	SUN-15K-G03	SUN-18K-G03
Energy source	Grid-connected PV		
Input Side			
Max.DC Power(kW)	15.6	18	21.6
Max.DC Input Voltage(V)	1000		
Start-up DC Input Voltage(V)	250		
MPPT Operating Range(V)	200~800		
Max.DC Input Current(A)	10+20	10+20	20+20
Number of MPPT/ Strings per MPPT	2/1+2	2/1+2	2/2+2
Output Side			
Rated Output Power(kW)	12	15	18
Max.Active Power(kW)	13.2	16.5	19.8
Rated AC Grid Voltage(V)	380/400		
AC Grid Voltage Range(V)	277~460		
Rated Grid Frequency(Hz)	50/60 (Optional)		
Operating Phase	Three phase		
Rated AC Grid Output Current(A)	17.4	21.8	26.1
Max.AC Output Current(A)	19.14	24	28.71
Output Power Factor	>0.99		
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		
Surge Protection	Yes		
Islanding Protection	Yes		
Temperature Protection	Yes		
Integrated DC Switch	Optional		
General Data			
Size(mm)	330W×430H×193.5D		
Weight(kg)	17		
Topology	Transformerless		
Internal Consumption	<1W(Night)		
Running Temperature	-25~60℃		
Ingress Protection	IP65		
Noise Emission(Typical)	<30 dB		
Cooling Concept	Intelligent cooling		
Max. Operating Altitude Without Derating	2000m		
Designed Lifetime	>20 years		
Grid Connection Standard	EN50438,IEC61727,VDE4105,NB/T32004(CQC),IEC62109-1-2		
Operating Surroundings Humidity	0-100%		
Stafty EMC /Standard	IEC62109-1/-2,EN61000-6-1,EN61000-6-3		
Features			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232		

Three Phase

SUN- 20 / 25 K-G02



Max. Efficiency
98.6%



2 MPPT



RS485/RS232



Internal SPD



Zero Export



IP65
Ingress Protection

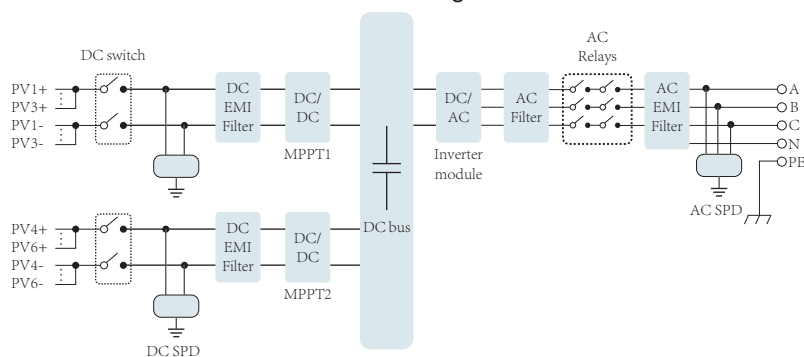


High Power
Factor

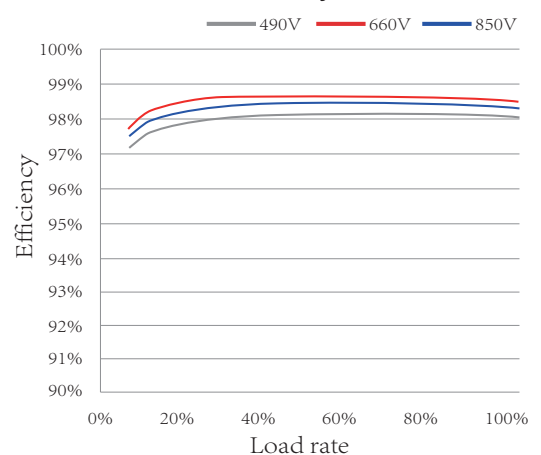


High Surge
Endurance

Circuit block diagram



Efficiency curve



Technical Specifications

Model	SUN-20K-G02	SUN-25K-G02
Energy source	Grid-connected PV	
Input Side		
Max.DC Power(kW)	24	32.5
Max.DC Input Voltage(V)	1000	
Start-up DC Input Voltage(V)	250	
MPPT Operating Range(V)	200~800	
Max.DC Input Current(A)	20+20	30+30
Number of MPPT/ Strings per MPPT	2/2	2/3
Output Side		
Rated Output Power(kW)	20	25
Max.Active Power(kW)	22	27.5
Rated AC Grid Voltage(V)	380/400	
AC Grid Voltage Range(V)	277~460	
Rated Grid Frequency(Hz)	50/60 (Optional)	
Operating Phase	Three phase	
Rated AC Grid Output Current(A)	29	36.2
Max.AC Output Current(A)	31.9	39.9
Output Power Factor	>0.99	
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	
Surge Protection	Yes	
Islanding Protection	Yes	
Temperature Protection	Yes	
Integrated DC Switch	Optional	
General Data		
Size(mm)	400W×520H×240.5D	
Weight(kg)	29	
Topology	Transformerless	
Internal Consumption	<1W(Night)	
Running Temperature	-25~60℃	
Ingress Protection	IP65	
Noise Emission(Typical)	<30 dB	
Cooling Concept	Intelligent cooling	
Max. Operating Altitude Without Derating	2000m	
Designed Lifetime	>20 years	
Grid Connection Standard	EN50438,IEC61727,VDE4105,NB/T32004(CQC),IEC62109-1-2	
Operating Surroundings Humidity	0-100%	
Stafty EMC /Standard	IEC62109-1/-2,EN61000-6-1,EN61000-6-3	
Features		
DC Connection	MC-4 mateable	
AC Connection	IP65 rated plug	
Display	LCD1602 / LCD 240 × 160	
Interface	RS485/RS232	

Three Phase

SUN- 30 / 33 / 35 / 40 / 50 K-G02



Max. Efficiency
98.7%



4 MPPT



RS485/RS232



Internal SPD



Zero Export



IP65
Ingress Protection



High Power
Factor



High Surge
Endurance

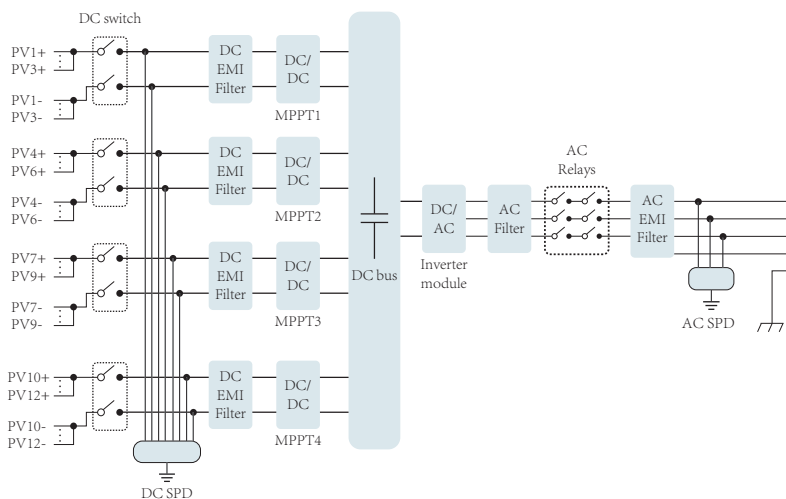


PV string current
monitoring
(Optional)

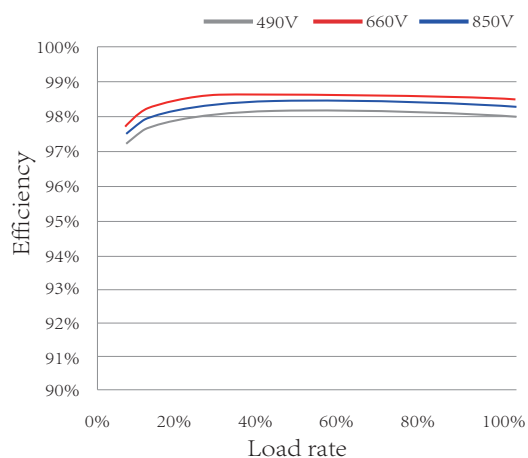


PID-Recovery
function
(Optional)

Circuit block diagram



Efficiency curve



Technical Specifications

Model	SUN-30K-G02	SUN-33K-G02	SUN-35K-G02	SUN-40K-G02	SUN-50K-G02
Energy source	Grid-connected PV				
Input Side					
Max.DC Power(kW)	36	36	39.6	52	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)	30+30	30+30	30+30+30	30+30+30	30+30+30+30
Number of MPPT/ Strings per MPPT	2/3	2/3	3/3	3/3	4/3
Output Side					
Rated Output Power(kW)	30	33	35	40	50
Max.Active Power(kW)	33	36.3	38.5	44	55
Rated AC Grid Voltage(V)	380/400				
AC Grid Voltage Range(V)	277~460				
Rated Grid Frequency(Hz)	50/60 (Optional)				
Operating Phase	Three phase				
Rated AC Grid Output Current(A)	43.5	48	50.7	58	72.4
Max.AC Output Current(A)	47.85	52.8	55.8	63.8	79.64
Output Power Factor	>0.99				
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				
Surge Protection	Yes				
Islanding Protection	Yes				
Temperature Protection	Yes				
Integrated DC Switch	Optional				
General Data					
Size(mm)	700W×575H×297D				
Weight(kg)	54				
Topology	Transformerless				
Internal Consumption	<1W(Night)				
Running Temperature	-25~60℃				
Ingress Protection	IP65				
Noise Emission(Typical)	<30 dB				
Cooling Concept	Intelligent cooling				
Max. Operating Altitude Without Derating	2000m				
Designed Lifetime	>20 years				
Grid Connection Standard	EN50438,IEC61727,VDE4105,NB/T32004(CQC),IEC62109-1-2				
Operating Surroundings Humidity	0-100%				
Stafty EMC /Standard	IEC62109-1/-2,AS3100,EN61000-6-1				
Features					
DC Connection	MC-4 mateable				
AC Connection	IP65 rated plug				
Display	LCD 240 × 160				
Interface	RS485/RS232				

Three Phase

SUN- 30 / 33 / 35 / 40 / 50 K-G



Max. Efficiency
98.7%



4 MPPT



RS485/RS232



Internal SPD



Zero Export



IP65
Ingress Protection

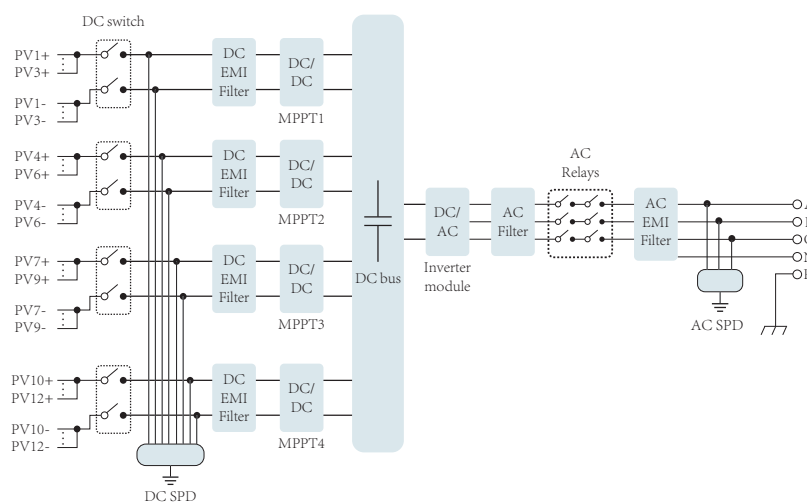


High Power
Factor

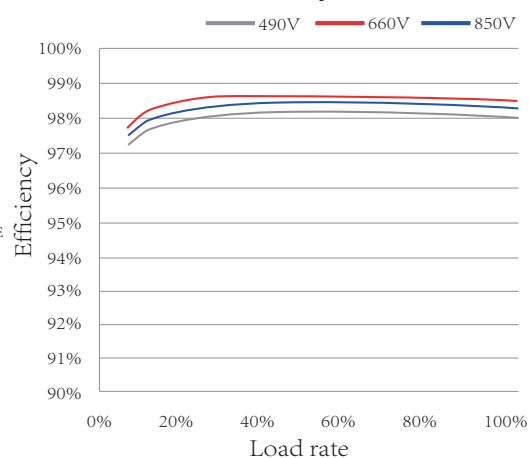


High Surge
Endurance

Circuit block diagram



Efficiency curve



Technical Specifications

Model	SUN-30K-G	SUN-33K-G	SUN-35K-G	SUN-40K-G	SUN-50K-G
Energy source	Grid-connected PV				
Input Side					
Max.DC Power(kW)	36	36	39.6	52	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)	30+30	30+30	30+30+30	30+30+30	30+30+30+30
Number of MPPT/ Strings per MPPT	2/3	2/3	3/3	3/3	4/3
Output Side					
Rated Output Power(kW)	30	33	35	40	50
Max.Active Power(kW)	33	36.3	38.5	44	55
Rated AC Grid Voltage(V)	380/400				
AC Grid Voltage Range(V)	277~460				
Rated Grid Frequency(Hz)	50/60 (Optional)				
Operating Phase	Three phase				
Rated AC Grid Output Current(A)	43.5	48	50.7	58	72.4
Max.AC Output Current(A)	47.85	52.8	55.8	63.8	79.64
Output Power Factor	>0.99				
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				
Surge Protection	Yes				
Islanding Protection	Yes				
Temperature Protection	Yes				
Integrated DC Switch	Optional				
General Data					
Size(mm)	700W×575H×297D				
Weight(kg)	54				
Topology	Transformerless				
Internal Consumption	<1W(Night)				
Running Temperature	-25~60℃				
Ingress Protection	IP65				
Noise Emission(Typical)	<30 dB				
Cooling Concept	Intelligent cooling				
Max. Operating Altitude Without Derating	2000m				
Designed Lifetime	>20 years				
Grid Connection Standard	EN50438,IEC61727,VDE4105,NB/T32004(CQC),IEC62109-1-2				
Operating Surroundings Humidity	0-100%				
Stafty EMC /Standard	IEC62109-1/-2,AS3100,EN61000-6-1				
Features					
DC Connection	MC-4 mateable				
AC Connection	IP65 rated plug				
Display	LCD 240 × 160				
Interface	RS485/RS232				

Three Phase

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



Max. Efficiency
98.9%



4 MPPT



RS485/RS232



Internal SPD



Zero Export



IP65
Ingress Protection

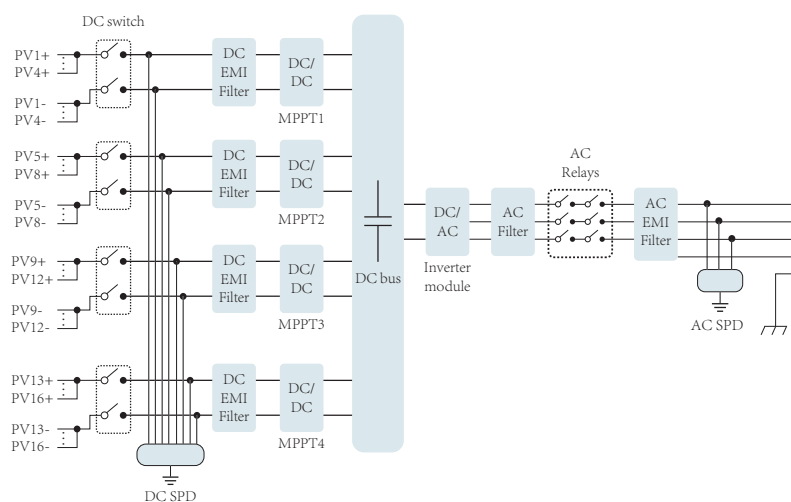


High Power
Factor

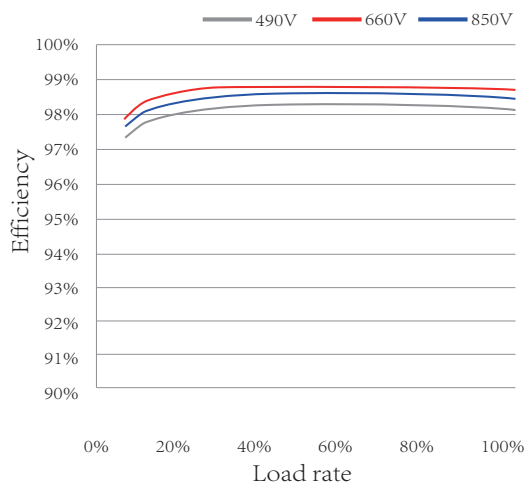


High Surge
Endurance

Circuit block diagram



Efficiency curve



Technical Specifications

Model	SUN-60K-G	SUN-70K-G	SUN-75K-G	SUN-80K-G
Energy source	Grid-connected PV			
Input Side				
Max.DC Power(kW)	78	91	97.5	96
Max.DC Input Voltage(V)	1000			
Start-up DC Input Voltage(V)	250			
MPPT Operating Range(V)	200~850			
Max.DC Input Current(A)	30+30+30+30	40+40+40+40	40+40+40+40	40+40+40+40
Number of MPPT/ Strings per MPPT	4/3	4/4	4/4	4/4
Output Side				
Rated Output Power(kW)	60	70	75	80
Max.Active Power(kW)	66	77	82.5	88
Rated AC Grid Voltage(V)	380/400			
AC Grid Voltage Range(V)	277~460			
Rated Grid Frequency(Hz)	50/60 (Optional)			
Operating Phase	Three phase			
Rated AC Grid Output Current(A)	87.8	101.5	108.7	115.9
Max.AC Output Current(A)	95.7	111.6	119.6	127.5
Output Power Factor	>0.99			
Grid Current THD	<3%			
DC Injection Current(mA)	<0.5%			
Grid Frequency Range	47~52 or 57~62(Optional)			
Efficiency				
Max. Efficiency	98.9%			
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			
Surge Protection	Yes			
Islanding Protection	Yes			
Temperature Protection	Yes			
Integrated DC Switch	Optional			
General Data				
Size(mm)	700W×575H×297D			
Weight(kg)	60			
Topology	Transformerless			
Internal Consumption	<1W(Night)			
Running Temperature	-25~60℃			
Ingress Protection	IP65			
Noise Emission(Typical)	<30 dB			
Cooling Concept	Intelligent cooling			
Max. Operating Altitude Without Derating	2000m			
Designed Lifetime	>20 years			
Grid Connection Standard	EN50438,IEC61727,VDE4105,NB/T32004(CQC),IEC62109-1-2			
Operating Surroundings Humidity	0-100%			
Stafty EMC /Standard	IEC62109-1/-2,AS3100,EN61000-6-1			
Features				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD 240 × 160			
Interface	RS485/RS232			