



Follow WeChat

**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: [wutz@deye.com.cn](mailto:wutz@deye.com.cn)

🌐 Web: [www.deyeinverter.com](http://www.deyeinverter.com)

[www.deye.com.cn](http://www.deye.com.cn)

[deyeinverter.en.alibaba.com](http://deyeinverter.en.alibaba.com)



# Solar Inverter

——Series Album

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

**Deye** 德業®



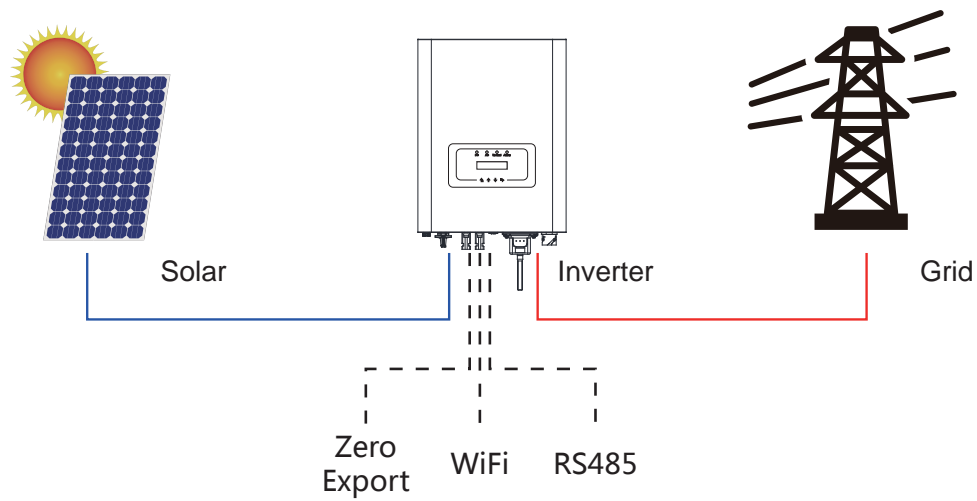
## About Deye

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.

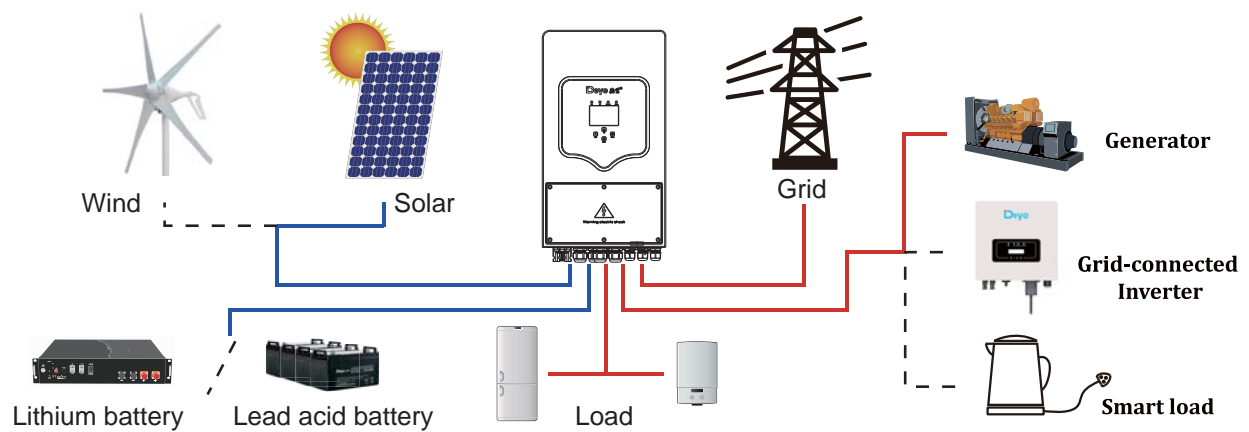
Our main products are string inverter, microinverter, hybrid inverter, etc. With a strong research and production capacity, we sell solar inverter to Europe, South America, Australia, Southeast Asia, Africa and other 46 countries and regions. At present we have become one of major global suppliers for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

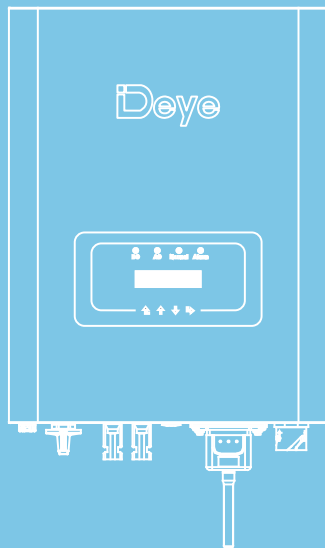


## Hybrid inverter block diagram





# 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

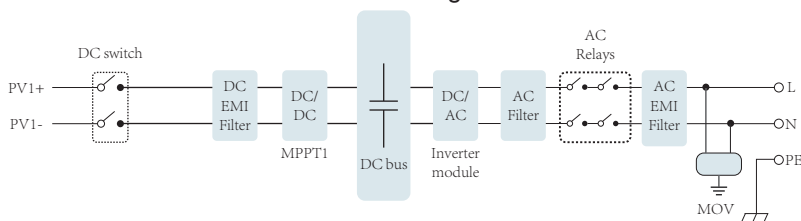


High Surge  
Endurance

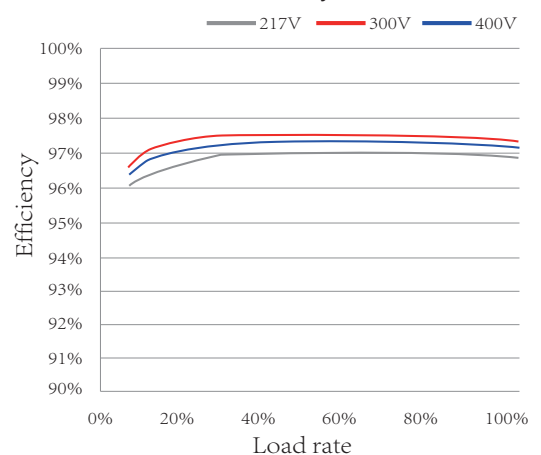


High Power  
Factor

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 Input 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	EN50549, IEC61727		
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	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

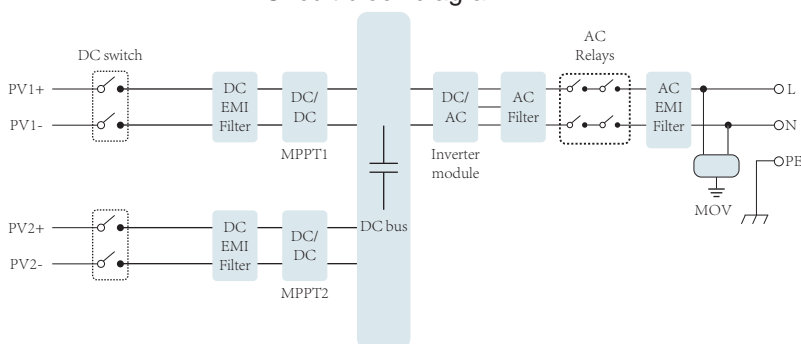


High Surge  
Endurance

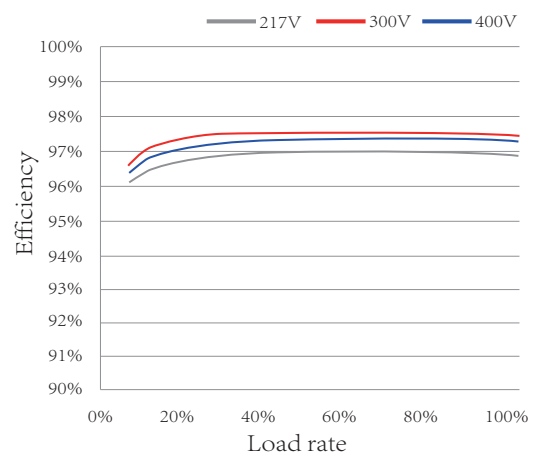


High Power  
Factor

Circuit block diagram



Efficiency curve



## Technical Specifications

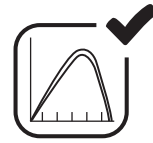
Model	SUN-3.6K-G	SUN-5K-G	SUN-6K-G	SUN-8K-G
Energy source	Grid-connected PV			
Input Side				
Max.DC Input Power(kW)	4.68	6.5	6.6	8.8
Max.DC Input Voltage(V)	500			
Start-up DC Input Voltage(V)	120			
MPPT Operating Range(V)	100~500			
Max.DC Input Current(A)	10+10	10+10	10+10	10+20
Number of MPPT/ Strings 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	EN50549, IEC61727			
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	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

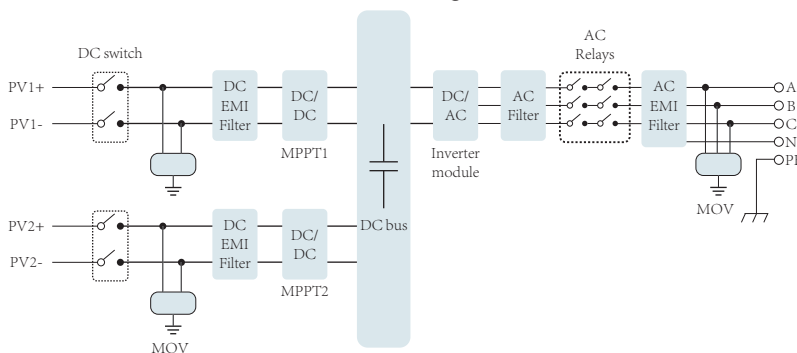


High Surge  
Endurance

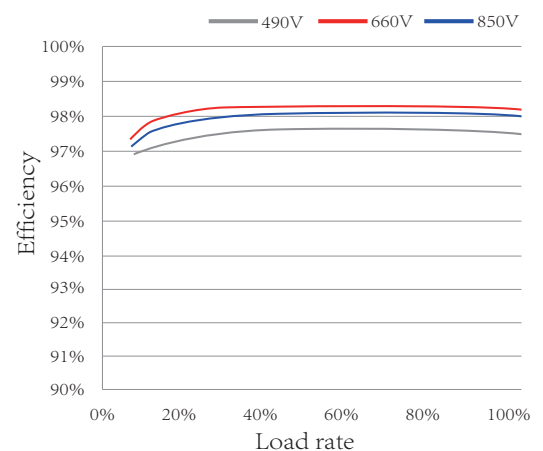


High Power  
Factor

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 Input 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	EN50549, IEC61727				
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	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

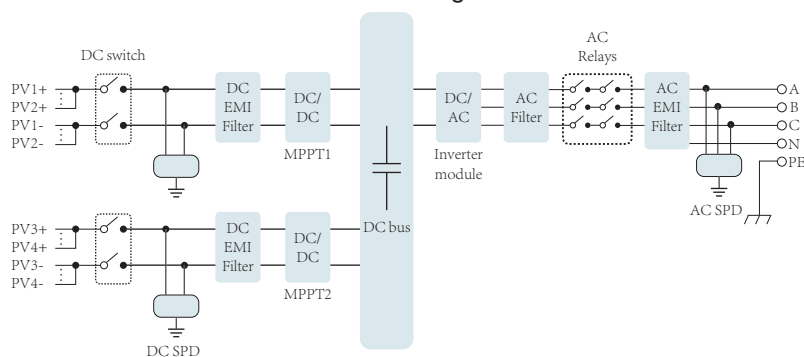


High Power  
Factor

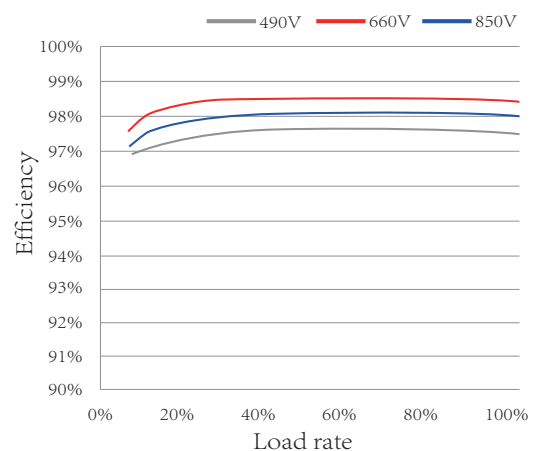


High Surge  
Endurance

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 Input 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	EN50549, IEC61727		
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	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

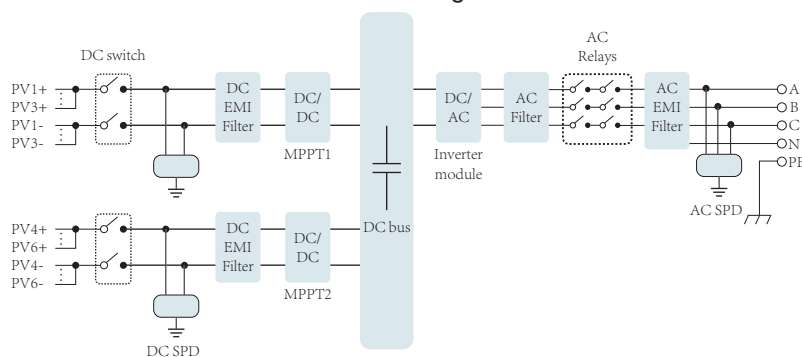


High Power  
Factor

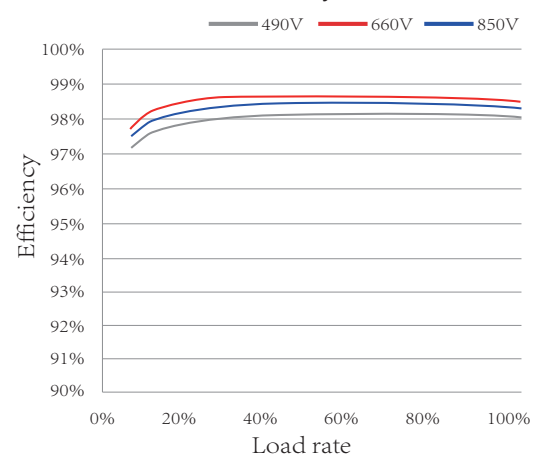


High Surge  
Endurance

Circuit block diagram



Efficiency curve



## Technical Specifications

Model	SUN-20K-G02	SUN-25K-G02
Energy source	Grid-connected PV	
Input Side		
Max.DC Input 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	EN50549, IEC61727	
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	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

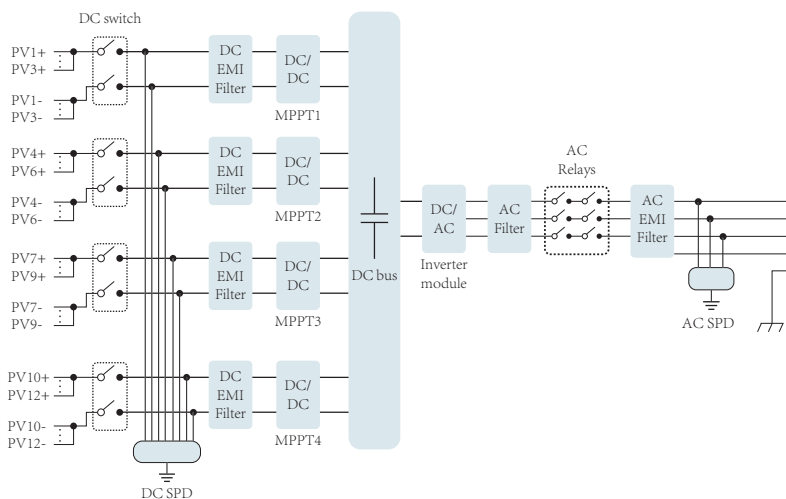


PV string current  
monitoring  
(Optional)

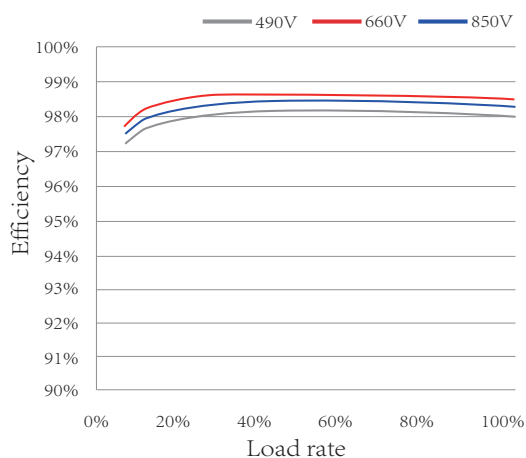


PID-Recovery  
function  
(Optional)

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 Input 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	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 C				
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	EN50549, IEC61727				
Operating Surroundings Humidity	0-100%				
Safety 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

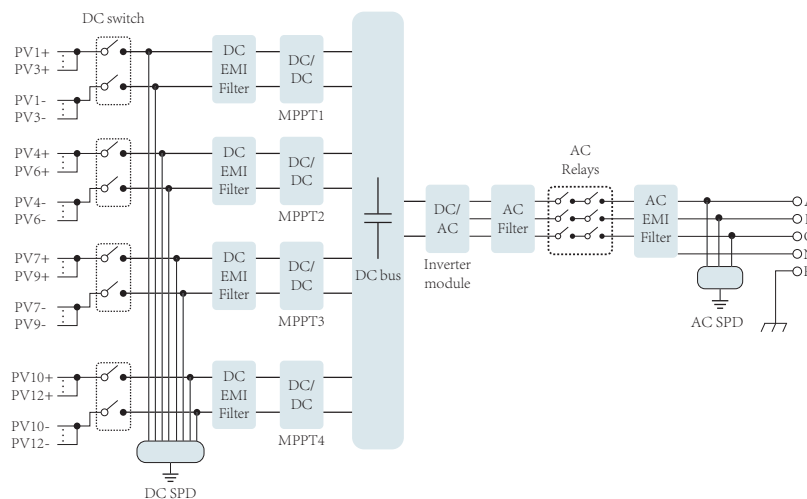


High Power  
Factor

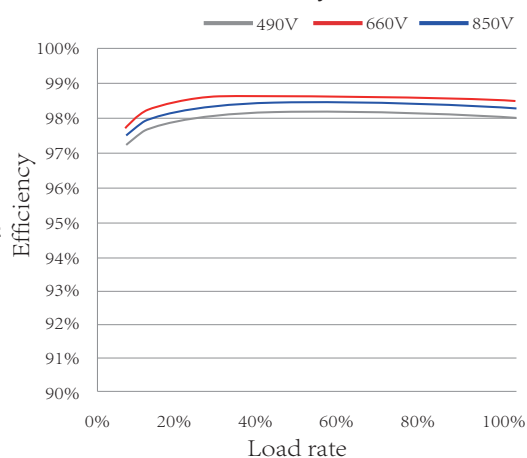


High Surge  
Endurance

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 Input 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	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	EN50549, IEC61727				
Operating Surroundings Humidity	0-100%				
Safety 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

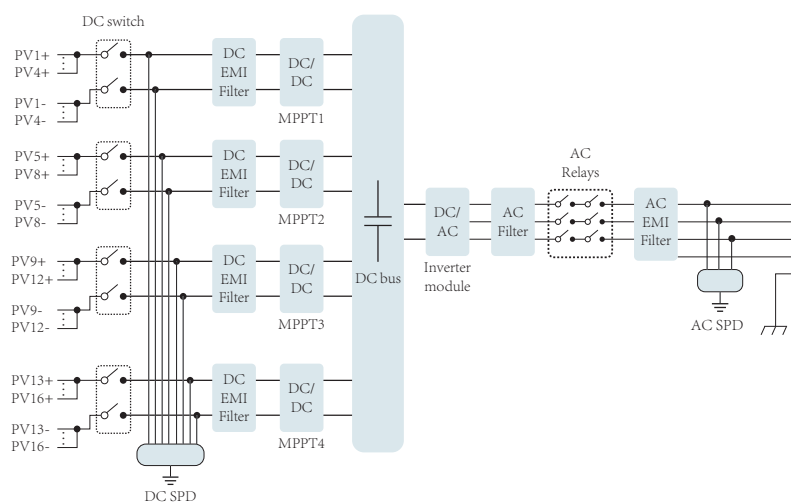


High Power  
Factor

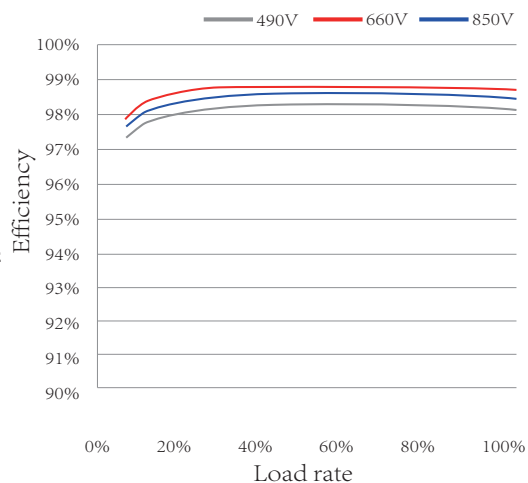


High Surge  
Endurance

Circuit block diagram



Efficiency curve

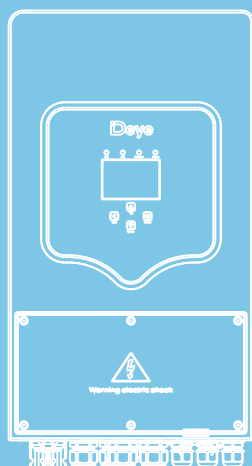


## Technical Specifications

Model	SUN-60K-G	SUN-70K-G	SUN-75K-G	SUN-80K-G
Energy source	Grid-connected PV			
Input Side				
Max.DC Input 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	EN50549, IEC61727			
Operating Surroundings Humidity	0-100%			
Safety 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			



# Hybrid Inverter



SUN-3.6/5K-SG01/03LP1-EU

SUN-5/6K-SG01LP1-US

SUN-7.6/8K-SG01LP1-US/EU





# Hybrid Inverter

SUN-3.6/5K-SG01/03LP1-EU



Max. Efficiency  
97.6%



2 MPPT



RS485/CAN



Internal SPD



Zero Export



IP65  
Ingress Protection



High Power  
Factor



High Surge  
Endurance



AC Coupled



Support Generator  
Connection

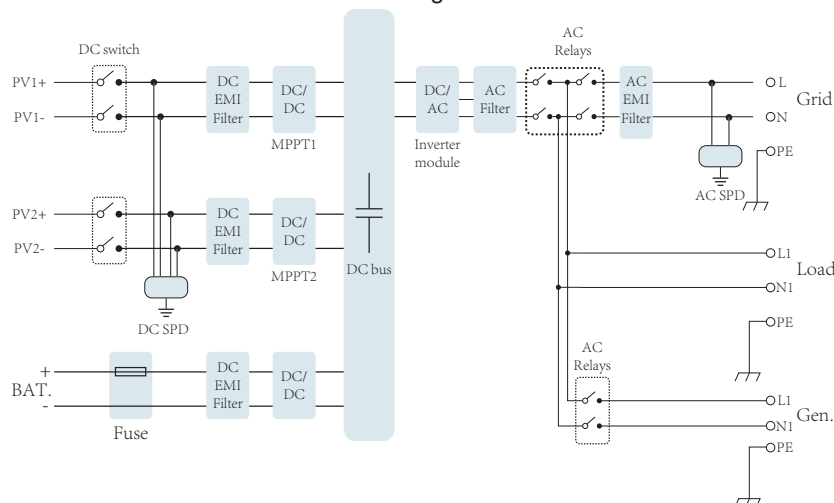


Six Time of  
Use Setting

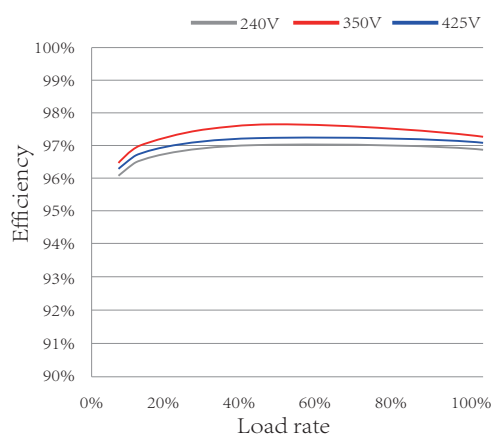


Support Multiple  
Parallel

Circuit block diagram



Efficiency curve



## Technical Specifications

Model	SUN-3.6K-SG01/03LP1 -EU	SUN-5K-SG01/03LP1 -EU
Battery Input Data		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range (V)	40~60V	
Max.Charging Current (A)	90A	120A
Max.Discharging Current (A)	90A	120A
Charging Curve	3 Stages/Equalization	
External Temperature Sensor	Optional	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV String Input Data		
Max.DC Input Power (W)	4680W	6500W
PV Input Voltage (V)	370V(100V~500V)	
MPPT Range (V)	125~425V	
Full Load DC Voltage Range	240~425V	
Start-up Voltage (V)	150V	
PV Input Current (A)	11A+11A	
No.of MPPT Trackers	2	
No.of Strings Per MPPT Tracker	1+1	
AC Output Data		
Rated AC Output and UPS Power (W)	3600W	5000W
Max AC Output Power (W)	3960W	5500W
Peak Power(off grid)	2 times of rated power, 10 S	
AC Output Rated Current(A)	15.7A	21.7A
Max.AC Current(A)	18A	25A
Max Continuous AC Passthrough(A)	35A	
Power Factor	0.8 leading to 0.8 lagging	
Output Frequency and Voltage	50/60Hz; 220/230/240Vac(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	
Certifications and Standards		
Grid Regulation	VDE 0126,AS4777,NRS2017,G98,G99,IEC61683,IEC62116,IEC61727	
Safety Regulation	IEC62109-1, IEC62109-2	
EMC	EN61000-6-1, EN61000-6-3	
General Data		
Operating Temperature Range ( C )	-25~60℃ , >45℃ Derating	
Cooling	Fan	
Noise (dB)	<30	
Communication with BMS	RS485; CAN	
Weight (kg)	20.5	
Size (Length*Width*Height mm)	580×330×208 mm	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 years	

# Hybrid Inverter

SUN-3.6/5K-SG01/03LP1-EU



Max. Efficiency  
97.6%



2 MPPT



RS485/CAN



Internal SPD



Zero Export



IP65  
Ingress Protection



High Power  
Factor



High Surge  
Endurance



AC Coupled



Support Generator  
Connection

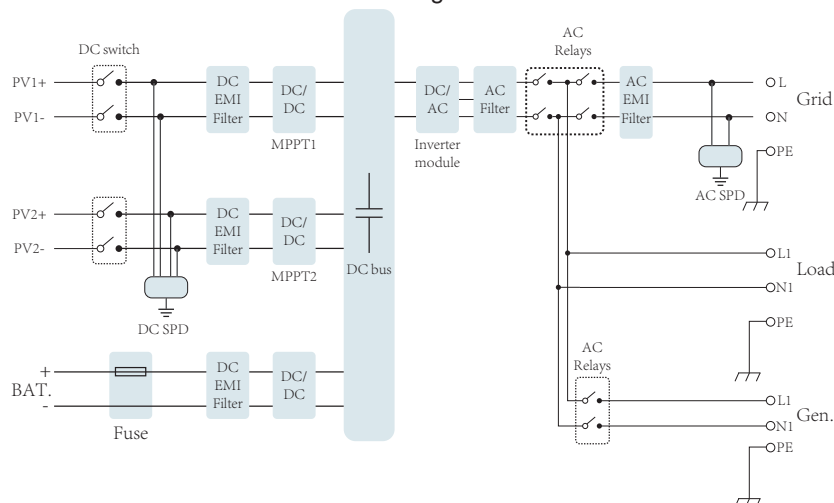


Six Time of  
Use Setting

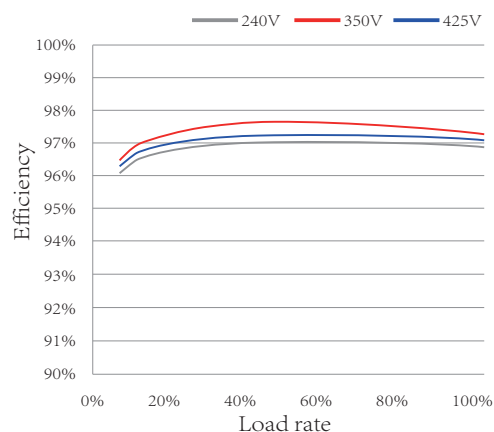


Support Multiple  
Parallel

Circuit block diagram



Efficiency curve



## Technical Specifications

Model	SUN-3.6K-SG01/03LP1 -EU	SUN-5K-SG01/03LP1 -EU
Battery Input Data		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range (V)	40~60V	
Max.Charging Current (A)	90A	120A
Max.Discharging Current (A)	90A	120A
Charging Curve	3 Stages/Equalization	
External Temperature Sensor	Optional	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV String Input Data		
Max.DC Input Power (W)	4680W	6500W
PV Input Voltage (V)	370V(100V~500V)	
MPPT Range (V)	125~425V	
Full Load DC Voltage Range	240~425V	
Start-up Voltage (V)	150V	
PV Input Current (A)	11A+11A	
No.of MPPT Trackers	2	
No.of Strings Per MPPT Tracker	1+1	
AC Output Data		
Rated AC Output and UPS Power (W)	3600W	5000W
Max AC Output Power (W)	3960W	5500W
Peak Power(off grid)	2 times of rated power, 10 S	
AC Output Rated Current(A)	15.7A	21.7A
Max.AC Current(A)	18A	25A
Max Continuous AC Passthrough(A)	35A	
Power Factor	0.8 leading to 0.8 lagging	
Output Frequency and Voltage	50/60Hz; 220/230/240Vac(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	
Certifications and Standards		
Grid Regulation	VDE 0126,AS4777,NRS2017,G98,G99,IEC61683,IEC62116,IEC61727	
Safety Regulation	IEC62109-1, IEC62109-2	
EMC	EN61000-6-1, EN61000-6-3	
General Data		
Operating Temperature Range ( C )	-25~60 C , >45 C Derating	
Cooling	Fan	
Noise (dB)	<30	
Communication with BMS	RS485; CAN	
Weight (kg)	20.5	
Size (Length*Width*Height mm)	580×330×208 mm	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 years	

# Hybrid Inverter

SUN-5/6K-SG01LP1-US

SUN-7.6/8K-SG01LP1-US/EU



Max. Efficiency  
97.6%



2 MPPT



RS485/CAN



Internal SPD



Zero Export



IP65  
Ingress Protection



High Power  
Factor



High Surge  
Endurance



AC Coupled



Support Generator  
Connection

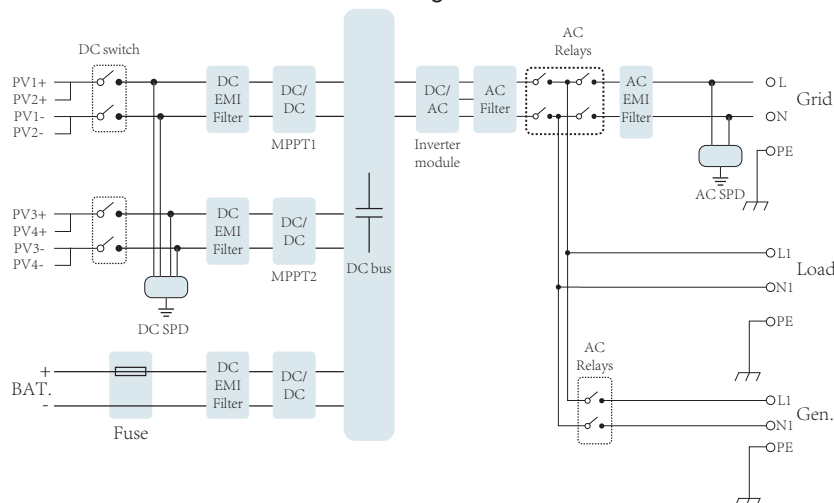


Six Time of  
Use Setting

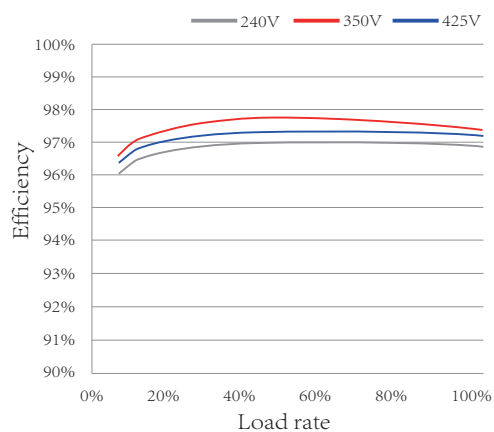


Support Multiple  
Parallel

Circuit block diagram



Efficiency curve



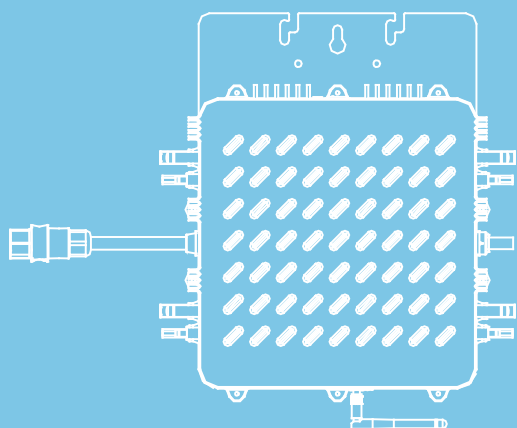
# SUN-5/6K-SG01LP1-US / SUN-7.6/8K-SG01LP1-US/EU

## Technical Specifications

Model	SUN-5K-SG01LP1 -US	SUN-6K-SG01LP1 -US	SUN-7.6K-SG01LP1 -US/EU	SUN-8K-SG01LP1 -US/EU
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40~60V			
Max.Charging Current (A)	120A	135A	190A	190A
Max.Discharging Current (A)	120A	135A	190A	190A
Charging Curve	3 Stages/Equalization			
External Temperature Sensor	Optional			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
PV String Input Data				
Max.DC Input Power (W)	6500W	7800W	9880W	10400W
PV Input Voltage (V)	370V(100V~500V)			
MPPT Range (V)	125V-425V			
Start-up Voltage (V)	150V			
PV Input Current (A)	11A+11A	18A+9A	18A+18A	18A+18A
No.of MPPT Trackers	2			
No.of Strings Per MPPT Tracker	1+1	2+1	2+2	2+2
AC Output Data				
Rated AC Output and UPS Power (W)	5000W	6000W	7600W	8000W
Max AC Output Power (W)	5500W	6600W	8360W	8800W
Peak Power(off grid)	2 times of rated power, 10 S			
AC Output Rated Current(A)	20.8A	25A	31.7A/33A	33.4A/35A
Max.AC Current(A)	24A	28.8A	36.4A/38A	38.3A/40A
Max Continuous AC Passthrough(A)	35A	35A	50A	50A
Output Frequency and Voltage	50/60Hz; 120/240Vac(split phase), 208Vac(2/3 phase),230Vac(single phase)			
Grid Type	Split phase 、 2/3 phase 、 Single 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 Arc Fault Detection	Integrated (Except European Type)			
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			
Certifications and Standards				
Grid Regulation	UL1741,IEEE1547,RULE21,VDE 0126,AS4777,NRS2017,G98,G99,IEC61683,IEC62116,IEC61727			
Safety Regulation	IEC62109-1, IEC62109-2			
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B			
General Data				
Operating Temperature Range ( ℃ )	-25~60 ℃ , >45 ℃ Derating			
Cooling	Fan			
Noise (dB)	<30			
Communication with BMS	RS485; CAN			
Weight (kg)	32			
Size (Length*Width*Height mm)	670×420×233mm			
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 years			



# Microinverter



SUN500G-230-EU

SUN600G2-US-208

SUN600G2-US-240

SUN600G2-US-220

SUN600G2-US-127

SUN1200G-230-EU

SUN1300G2-US-208

SUN1300G2-US-240

SUN1300G





# Microinverter

SUN500G-230-EU

SUN600G2-US-208/240

SUN600G2-US-220

SUN600G2-US-127



Max. Efficiency  
96.5%



2 MPPT



Power line/Zigbee  
WIFI



IP67  
Ingress Protection

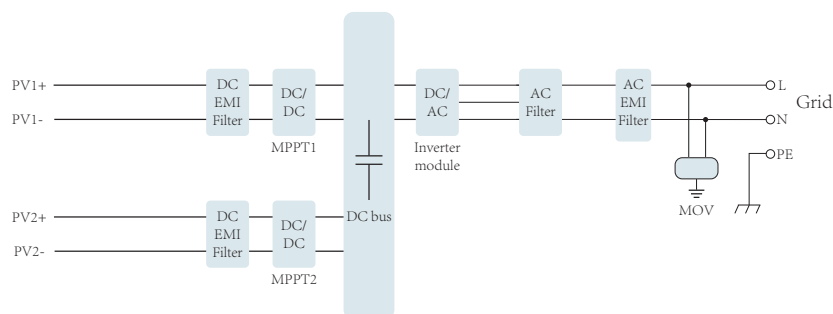


High Power  
Factor

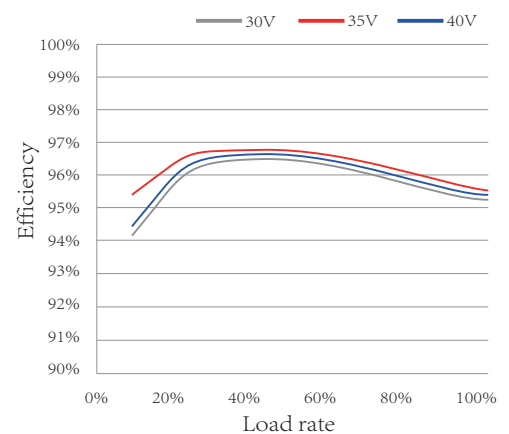


High Surge  
Endurance

Circuit block diagram



Efficiency curve



# SUN500G-230-EU / SUN600G2-US-208/240

## SUN600G2-US-220 / SUN600G2-US-127

### Technical Specifications

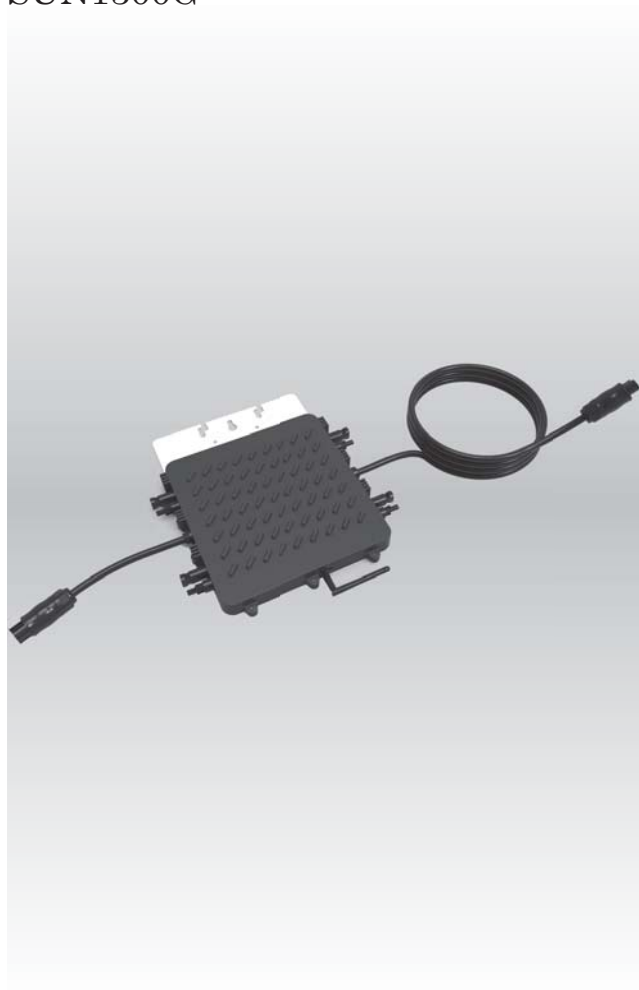
Input Data(DC)	SUN500G-230-EU	SUN600G2-US-208/240	SUN600G2-US-220	SUN600G2-US-127
Recommended input Power(STC)	210~400W(2 Pieces)			210~350W
Maximum input DC Voltage	60V			60V
MPPT Voltage Range	25~55V			25~55V
Operating DC Voltage Range	20~60V			20~60V
Max DC Short Circuit Current	13A			13A
Max input Current	10.4×2			10.4×2
Output Data(AC)				
Peak output Power	600W			500W
Maximum output Power	600W			500W
Maximum output Current	2.17A	2.884A / 2.5A	2.7A	4A
Nominal Voltage / Range	184~265V	208V / 183~229V 240V / 211~264V	176~242V	a.c.95~155V @127Vac
Nominal Frequency /Range	50.0 / 47.5~51.5Hz	60.0 / 59.3~60.5Hz	60.0 / 59.3~60.5Hz	60.0 / 59.3~60.5Hz
Extended Frequency / Range	50.0 / 45~55Hz	60.0 / 55~65Hz	60.0 / 55~65Hz	60.0 / 55~65Hz
Power Factor	>0.99			>0.99
Maximum units per branch	8			5
Efficiency				
CEC Weighted Efficiency	95%			
Peak Inverter Efficiency	96.5%			
Static MPPT Efficiency	99%			
Night Time Power Consumption	50mW			
Mechanical Data				
Ambient Temperature Range	-40~65℃			
Dimensions (W×H×D)	185×161×29 mm (Without mounting bracket and cable)			
Weight(kg)	2.4			
Cooling	Natural convection-No fans			
Enclosure Environmental Rating	IP67			
Features				
Compatibility	Compatible with 60~72 cell PV modules			
Communication	Power line / WIFI / Zigbee			
Compliance	UL1741、VDE0126、VDE4105、IEC62109、CE、INMETRO			
Warranty	10 years			

# Microinverter

SUN1300G2-US-208/240

SUN1200G-230-EU

SUN1300G



Max. Efficiency  
96.5%



4 MPPT



Power line/Zigbee  
WIFI



IP67  
Ingress Protection

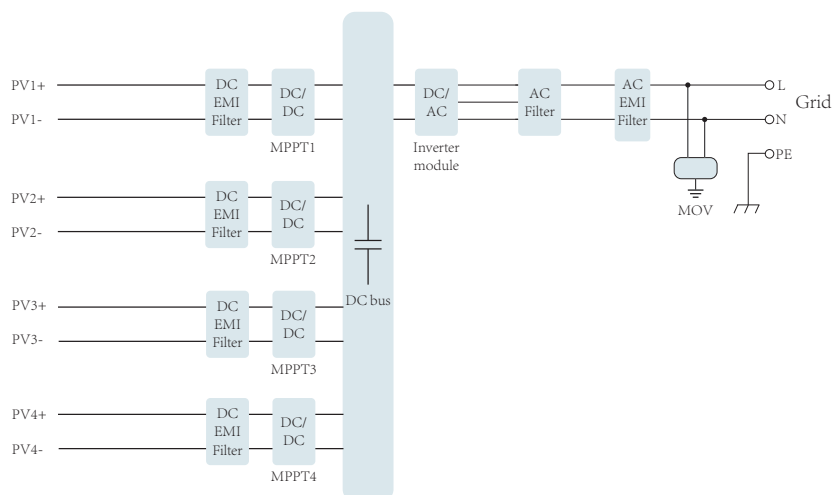


High Power  
Factor

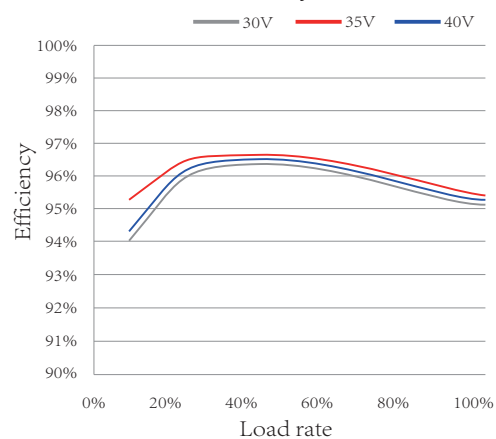


High Surge  
Endurance

Circuit block diagram



Efficiency curve



# SUN1300G2-US-208/240 / SUN1200G-230-EU / SUN1300G

## Technical Specifications

Input Data(DC)	SUN1200G-230-EU	SUN1300G2-US-208/240	SUN1300G
Recommended input Power(STC)	210~400W(4 Pieces)		
Maximum input DC Voltage	60V		
MPPT Voltage Range	25~55V		
Operating DC Voltage Range	20~60V		
Max DC Short Circuit Current	13A	13A	14A
Max input Current	10.4×4		
Output Data(AC)			
Peak output Power	1300W		
Maximum output Power	1300W		
Maximum output Current	4.34A	6.25A / 5.416A	5.91A
Nominal Voltage / Range	184~265V	208V / 183~229V 240V / 211~264V	176~242V
Nominal Frequency /Range	50.0 / 47.5~51.5Hz	60.0 / 59.3~60.5Hz	60.0 / 59.3~60.5Hz
Extended Frequency / Range	50.0 / 45~55Hz	60.0 / 55~65Hz	60.0 / 55~65Hz
Power Factor	>0.99		
Maximum units per branch	4		
Efficiency			
CEC Weighted Efficiency	95%		
Peak Inverter Efficiency	96.5%		
Static MPPT Efficiency	99%		
Night Time Power Consumption	50mW		
Mechanical Data			
Ambient Temperature Range	-40~65 C		
Dimensions (W×H×D)	298.5×287×36 mm (Without mounting bracket and cable)		
Weight(kg)	6.3		
Cooling	Natural convection-No fans		
Enclosure Environmental Rating	IP67		
Features			
Compatibility	Compatible with 60~72 cell PV modules		
Communication	Power line / WIFI / Zigbee		
Compliance	UL1741、VDE0126、VDE4105、IEC62109、CE、INMETRO		
Warranty	10 years		



# Accessory & Monitoring



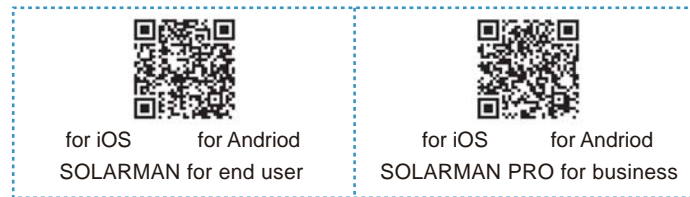
 SOLARMAN | Smart PV Monitoring Platform

# SOLARMAN | Smart PV Monitored Platform



Deye residential monitoring solution take great care to ensure that your PV system is in excellent operation throughout its entire life-cycle. This monitoring solution offer you details information of your power generating plant including Today energy, Monthly energy, yearly energy, total energy etc, through wireless communication with your router to the internet by an smart wifi plug. User can easily access to the monitoring page via PC web or phone APP.

Maximum your energy output while minimizing your costs. Scan here to build your power station !



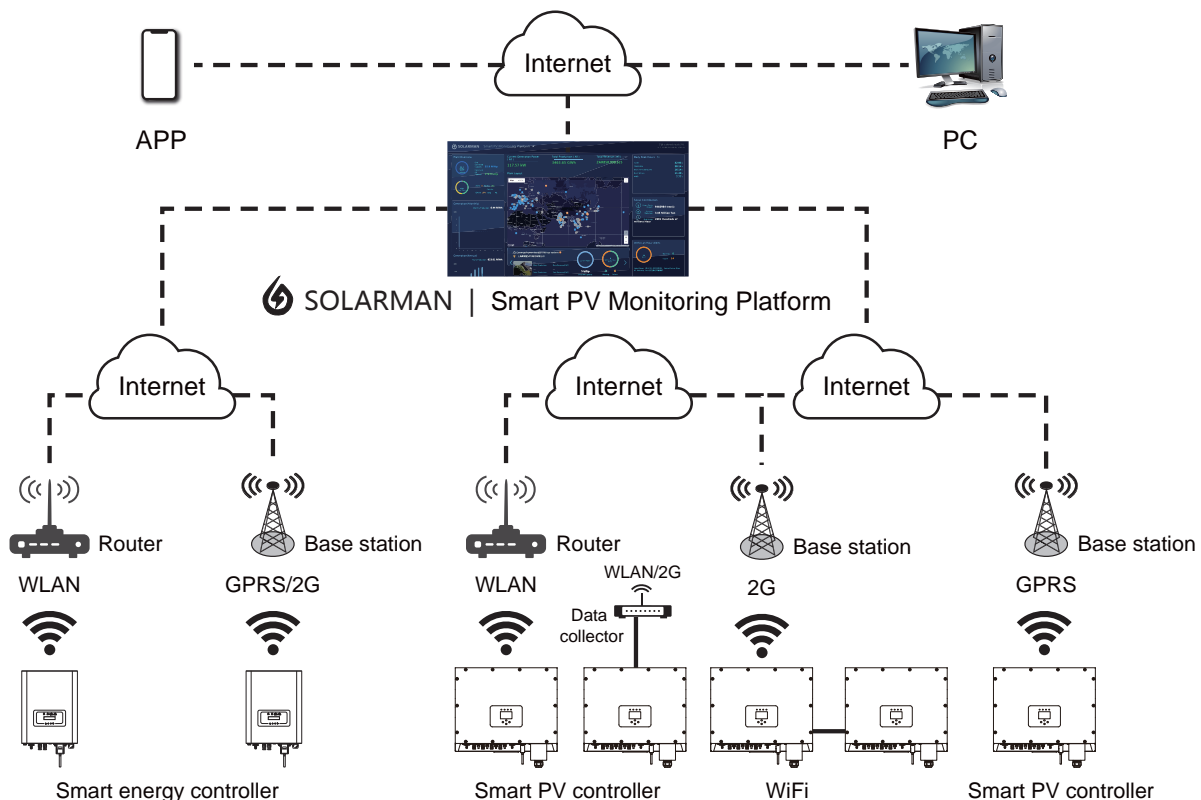
**Efficiency**

- Open station supports one-click installation and registration;
- Problem support one-click dispatch and navigation.



**Safe**

- Safe operation, traceable logs, etc;
- Support full lifecycle data storage to ensure data security and reliability.



# Stick Logger

Monitor your system anywhere in the world.

GPRS / WIFI / 4G / ETHERNET / NB-IOT

SOLARMAN stick logger supports GPRS, WIFI, 4G, Ethernet and other communication modes. It supports RS485, RS232, TTL and other serial communications. With the design of multi-cover, it adapts to a vast majority of inverters. Its bluetooth function enables local debugging configuration to collect operation and power generation data from inverters. It pairs with SOLARMAN professional platform to enable remote PV system monitoring and to realize distributed power station management with lower cost and higher efficiency. Furthermore, its extended functions (e.g. GPS, power-off reminder) enable a easy inquiry for field fault and a better APN configuration, which increases the success rate of WiFi configuration and lower plant O&M cost.

- External light indicator, logging status at a glance;
- Plug & play, pick power within inverter, no external power needed , easy to install;
- Independent from inverter to protect parts inside inverter, eliminate potential problems;
- IP65 water-proof design, resistant to bad weather, enhance stability;
- External design, easier to replace faulty equipment;
- End-user can monitor yields at any time with SOLARMAN APP.



Product Model	LSG-3	LSG-4	LSW-3	LS4G-3	LSE-3
Remote Communication Interface	GPRS	GPRS	WiFi	4G	LAN
Working Frequency	GSM850/EGSM900 /DCS1800/PCS 1900MHz	GSM850/EGSM900 /DCS1800/PCS 1900MHz	2.142GHz~ 2.484GHz	704MHZ-960MHZ 1710MHZ-2690MHZ	Adaptive Network; 10M/100M
Satellite Positioning	/	GPS/Beidou <15m	/	/	/
Antenna	External GPRS Stick Antenna	External GPRS Stick Antenna	External WiFi Stick Antenna	External 4G Stick Antenna	/
Data Interface	RS485/RS232/TTL				
Working Voltage	DC4.7V ~DC15V				
Working Power	3W	3W	1.5W	5W	1W
SIM Card	Chip Card/MicroSIM	Chip Card/MicroSIM	/	MicroSIM	/
Memory	2M Flash (2M-16M Optional)				
Working Temperature	-40℃~+85℃				
Working Humidity	<90% (No Condensing)				
No. of Connections	One				
Serial Communication Rate	bps (1200-115200bps Configurable)				
Data Acquisition Interval	Default 5min (1-15min Configurable)				
User Configuration	AT+Instruction Set				
	Remote Server				
	Bluetooth	APP / Web	Local Serial Port		Web
Firmware Upgrade	Remote Upgrade				
Others	Real-time Control, Data resuming				