



SolarMax[®]

ONYX
5G SERIES

Grid-Tied Solar String Inverters



No.1
PV INVERTER
EXPERTS



Remote Monitoring
Wifi / GPRS



Bluetooth
For Settings



IP 65 Protection
Weather Proof

ONE STEP TO KNOW US!

Your Go-to Source for One Stop Solar Solutions!

SolarMax® is a brand of Power Highway, we are providing the cost effective renewable energy products to Corporate, Residential and Commercial Sectors across the country since 2007. Keeping in view the above and our commitment for a healthy planet with less carbon intensive economy.

We are specialized to design and provide the state of the art products of different range in Solar Panels, Inverters, Batteries, Charge controllers, related accessories, equipment and Complete Solar Solutions on turn key basis, which are equipped with latest technology.



Customer Satisfaction is Our Pride!

Our clients are from different sector like Residential, Commercial, Industrial, Educational Institutes and Agricultural Lands. From houses to community living setups, we have provided them with uninterrupted alternate energy.

How We Work!

We believe in a well-designed strategy and execute our projects in a creative and inventive manner and became trend setter with hard work, sincere dedication and uniqueness style to carry out energy efficient, cost effective and space savings projects. Our team members and Partners have completed numbers of projects. We conduct surveys and perform research beforehand so as to make every project give it maximum yield with considering the cost and space constraints as well as its effectiveness.

Our Widespread Network!

Nationwide Channel Sales and Distribution Network works efficiently to provide renewable energy solutions especially solar products in minimum possible time while maintaining the best of the quality. Our partners in the international community; such as Europe, USA, Taiwan and China facilitate with the latest technology and equipment to come up with the successful completion of our own R&D products through OEM & ODM.

We at SolarMax, keep up with the needs of times and provide our clients with the best solar solutions to the best of their satisfaction and contentment while considering "Go Green Before Green Gone".

14+ YEARS OF
EXPERIENCE

32000+ VALUABLE
CUSTOMERS

13000+ COMPLETED
PROJECTS

3 Phase On-Grid/ Grid-Tied String Inverter

FEATURES



LCD & Bluetooth



User-friendly



Intelligent Cooling,
IP65 Protection



MPPT Efficiency > 99%



Smart & Compact
Design



Support Export Limit
Function
Output Power Range From 0~100%



High Reliability



High Power Factor



Higher Yields



High Surge Endurance



Support VSG Function,
Applicable For Poor Grid Area



Wide PV Input Voltage
Range



Wide AC Grid Voltage
Range



Internal SPD's Protection



Interface
RS485/RS232



Multiple Units Can Be
Used in Parallel



Smart Monitoring
& Control



6 Year Warranty
Extended Warranty Available



5G
SERIES

SM-6K-5G3P+ | SM-8K-5G3P+
SM-10K-5G3P+ | SM-12K-5G3P+
SM-15K-5G3P+



GRID-TIED
SOLAR STRING INVERTERS
3 PHASE & DUAL MPPT

Die-Cast Aluminum Enclosure
With Higher Heat Dissipation Reliability



Smart



Efficient



Reliable



Safe

Model	SM-6K-5G3P+	SM-8K-5G3P+	SM-10K-5G3P+	SM-12K-5G3P+	SM-15K-5G3P+
Efficiency					
Max. Efficiency	98.2%	98.2%	98.4%	98.4%	98.4%
European Efficiency	97.8%	97.8%	98.0%	98.0%	98.0%
MPPT Efficiency	>99%				
Input(PV)					
Max. Input Power (KW)	7.8	10.4	13	15.6	19.5
Max. Input Voltage	1000V				
Rated Input Voltage	620V				
Max. Input Current	26A (2*13A)			39A (26A+13A)	
Max.Short Circuit Current	30A(2*15A)			45A(2*15A+15A)	
Start Input Voltage/ Min. Operating Voltage	200V/160V				
MPPT Operating Voltage Range	160V-950V				
MPPT Operating Voltage Range (Full-Load)	300V-800V	380V-800V	470V-800V	380V-800V	470V-800V
Max. Number of PV Strings	2(1/1)			3(2/1)	
No. of MPPTs	2				
Output(Grid)					
Rated AC Active Power	6,000W	8,000W	10,000W	12,000W	15,000W
Max. AC Apparent Power	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA
Max. AC Active Power (PF=1)	6,600W	8,800W	11,000W	13,200W	16,500W
Max. AC Output Current	3*10A	3*13A	3*16A	3*18.2A	3*22.7A
Rated AC Voltage	380V/400V,3W+N+PE				
AC Voltage Range*	277V-520V(Adjustable)				
Rated Grid Frequency	50Hz/60Hz				
Grid Frequency Range**	45Hz-55Hz/55Hz-65Hz(Adjustable)				
THDI	<3%(Rated Power)				
DC Current Injection	<0.5%In				
Power Factor	> 0.99 Rated power(Adjustable 0.8 Leading - 0.8Lagging)				
Protection					
DC switch	Support				
Anti-islanding protection	Support				
AC overcurrent protection	Support				
AC short circuit protection	Support				
DC reverse connection	Support				
Surge Arrester	AC Type III				
Insulation detection	Support				
Leakage current protection	Support				
General					
Topology	Transformerless				
IP Rating	IP65				
Night Self Consumption	<1W				
Cooling	Natural cooling				
Operating Temperature Range	-25°-60°				
Relative Humidity Range	0-100%				
Max. Operating Altitude	4000m				
Noise	<30dB				
Dimensions (W*H*D)	400*500*190mm				
Weight	18.9KG			21.8KG	
HMI & COM					
Display	Bluetooth , APP, LED & LCD				
Communication	WiFi, RS485, GPRS(Optional)				
Certification					
Safety	IEC62109-1, IEC62109-2				
Others	IEC 60068, IEC 61683				
Grid Code	VDE-AR-N 4105, IEC61727, IEC62116, EN 50549, IEEE 1547, AS 4777				
Warranty	6 Years/10 Years(Optional)				

Remarks: The range of output voltage and frequency may vary depending upon different grid codes. Specifications are subject to change without advance notice.



5G SERIES

SM-6K-5G3P | SM-8K-5G3P
SM-10K-5G3P | SM-12K-5G3P
SM-15K-5G3P



GRID-TIED

SOLAR STRING INVERTERS
3 PHASE & DUAL MPPT



Smart



Efficient



Reliable



Safe

Model	SM-6K-5G3P	SM-8K-5G3P	SM-10K-5G3P	SM-12K-5G3P	SM-15K-5G3P
Efficiency					
Max. Efficiency	98.2%	98.2%	98.4%	98.4%	98.4%
European Efficiency	97.8%	97.8%	98.0%	98.0%	98.0%
MPPT Efficiency	>99%				
Input(PV)					
Max. Input Power (KW)	7.8	10.4	13	15.6	19.5
Max. Input Voltage	1000V				
Rated Input Voltage	620V				
Max. Input Current	26A (2*13A)			39A (26A+13A)	
Max.Short Circuit Current	30A(2*15A)			45A(2*15A+15A)	
Start Input Voltage/ Min. Operating Voltage	200V/160V				
MPPT Operating Voltage Range	160V-950V				
MPPT Operating Voltage Range (Full-Load)	300V-800V	380V-800V	470V-800V	380V-800V	470V-800V
Max. Number of PV Strings	2(1/1)			3(2/1)	
No. of MPPTs	2				
Output(Grid)					
Rated AC Active Power	6,000W	8,000W	10,000W	12,000W	15,000W
Max. AC Apparent Power	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA
Max. AC Active Power (PF=1)	6,600W	8,800W	11,000W	13,200W	16,500W
Max. AC Output Current	3*10A	3*13A	3*16A	3*18.2A	3*22.7A
Rated AC Voltage	380V/400V,3W+N+PE				
AC Voltage Range*	277V-520V(Adjustable)				
Rated Grid Frequency	50Hz/60Hz				
Grid Frequency Range**	45Hz-55Hz/55Hz-65Hz(Adjustable)				
THDI	<3%(Rated Power)				
DC Current Injection	<0.5%In				
Power Factor	> 0.99 Rated power(Adjustable 0.8 Leading - 0.8Lagging)				
Protection					
DC switch	Support				
Anti-islanding protection	Support				
AC overcurrent protection	Support				
AC short circuit protection	Support				
DC reverse connection	Support				
Surge Arrester	AC Type III				
Insulation detection	Support				
Leakage current protection	Support				
General					
Topology	Transformerless				
IP Rating	IP65				
Night Self Consumption	<1W				
Cooling	Natural cooling				
Operating Temperature Range	-25°-60°				
Relative Humidity Range	0-100%				
Max. Operating Altitude	4000m				
Noise	<30dB				
Dimensions (W*H*D)	400*500*190mm				
Weight	18.9KG			21.8KG	
HMI & COM					
Display	Bluetooth , APP, LED & LCD				
Communication	WiFi, RS485, GPRS(Optional)				
Certification					
Safety	IEC62109-1, IEC62109-2				
Others	IEC 60068, IEC 61683				
Grid Code	VDE-AR-N 4105, IEC61727, IEC62116, EN 50549, IEEE 1547, AS 4777				
Warranty	6 Years/10 Years(Optional)				

Remarks: The range of output voltage and frequency may vary depending upon different grid codes. Specifications are subject to change without advance notice.



5G SERIES

SM-17K-5G3P | SM-20K-5G3P
SM-22K-5G3P



GRID-TIED

SOLAR STRING INVERTERS
3 PHASE & DUAL MPPT



Smart



Efficient



Reliable



Safe

Model	SM-17K-5G3P	SM-20K-5G3P	SM-22K-5G3P
Efficiency			
Max. Efficiency	98.6%	98.6%	98.6%
European Efficiency	98.2%	97.7%	98.2%
MPPT Efficiency	>99%		
Input(PV)			
Max. Input Power (KW)	22.1	26	28.6
Max. Input Voltage	1000V		
Rated Input Voltage	620V		
Max. Input Current	50A (2*25A)		
Max.Short Circuit Current	60A(2*30A)		
Start Input Voltage/ Min. Operating Voltage	250V/180V		
MPPT Operating Voltage Range	180V-960V		
MPPT Operating Voltage Range (Full-Load)	480V-800V		
Max. Number of PV Strings	4(2/2)		
No. of MPPTs	2		
Output(Grid)			
Rated AC Active Power	17,000W	20,000W	22,000W
Max. AC Apparent Power	18,700VA	22,000VA	24,200VA
Max. AC Active Power (PF=1)	18,700VA	22,000W	24,200W
Max. AC Output Current	3*28.3A	3*33.5A	3*35A
Rated AC Voltage	380V/400V, 3W+N+PE		
AC Voltage Range*	277V-520V(Adjustable)		
Rated Grid Frequency	50Hz/60Hz		
Grid Frequency Range**	45Hz-55Hz/55Hz-65Hz(Adjustable)		
THDI	<3%(Rated Power)		
DC Current Injection	<0.5%In		
Power Factor	> 0.99 Rated power(Adjustable 0.8 Leading - 0.8Lagging)		
Protection			
DC switch	Support		
Anti-islanding protection	Support		
AC overcurrent protection	Support		
AC short circuit protection	Support		
DC reverse connection	Support		
Surge Arrester	DC Type II/AC Type II		
Insulation detection	Support		
Leakage current protection	Support		
General			
Topology	Transformerless		
IP Rating	IP65		
Night Self Consumption	<1W		
Cooling	Natural cooling		
Operating Temperature Range	-25°-60°		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Noise	<30dB		
Dimensions (W*H*D)	555*446*270mm		
Weight	37KG		
HMI & COM			
Display	Bluetooth , APP, LED & LCD		
Communication	WiFi, RS485, GPRS(Optional)		
Certification			
Safety	IEC62109-1, IEC62109-2		
Others	IEC 60068, IEC 61683		
Grid Code	VDE-AR-N 4105, IEC61727, IEC62116, EN 50549		
Warranty	6 Years/10 Years(Optional)		

Remarks: The range of output voltage and frequency may vary depending upon different grid codes. Specifications are subject to change without advance notice.



5G SERIES

SM-25K-5G3P | SM-28K-5G3P
SM-30K-5G3P



GRID-TIED

SOLAR STRING INVERTERS
3 PHASE & DUAL MPPT



Smart



Efficient



Reliable



Safe

Model	SM-25K-5G3P	SM-28K-5G3P	SM-30K-5G3P
Efficiency			
Max. Efficiency	98.6%	98.6%	98.6%
European Efficiency	98.3%	98.3%	98.3%
MPPT Efficiency	>99%		
Input(PV)			
Max. Input Power (KW)	32.5	36.4	39
Max. Input Voltage	1000V		
Rated Input Voltage	620V		
Max. Input Current	75A (2*37.5A)		
Max.Short Circuit Current	84A(2*42A)		
Start Input Voltage/ Min. Operating Voltage	250V/180V		
MPPT Operating Voltage Range	180V-960V		
MPPT Operating Voltage Range (Full-Load)	480V-800V		
Max. Number of PV Strings	6(3/3)		
No. of MPPTs	2		
Output(Grid)			
Rated AC Active Power	25,000W	28,000W	30,000W
Max. AC Apparent Power	27,500VA	30,800VA	33,000VA
Max. AC Active Power (PF=1)	27,500VA	30,800W	33,000W
Max. AC Output Current	3*40A	3*45A	3*48A
Rated AC Voltage	380V/400V, 3W+N+PE		
AC Voltage Range*	277V-520V(Adjustable)		
Rated Grid Frequency	50Hz/60Hz		
Grid Frequency Range**	45Hz-55Hz/55Hz-65Hz(Adjustable)		
THDI	<3%(Rated Power)		
DC Current Injection	<0.5%In		
Power Factor	> 0.99 Rated power(Adjustable 0.8 Leading - 0.8Lagging)		
Protection			
DC switch	Support		
Anti-islanding protection	Support		
AC overcurrent protection	Support		
AC short circuit protection	Support		
DC reverse connection	Support		
Surge Arrester	DC Type II/AC Type II		
Insulation detection	Support		
Leakage current protection	Support		
General			
Topology	Transformerless		
IP Rating	IP65		
Night Self Consumption	<1W		
Cooling	Fan cooling		
Operating Temperature Range	-25°-60°		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Noise	<50dB		
Dimensions (W*H*D)	555*446*270mm		
Weight	40KG		
HMI & COM			
Display	Bluetooth , APP, LED & LCD		
Communication	WiFi, RS485, GPRS(Optional)		
Certification			
Safety	IEC62109-1, IEC62109-2		
Others	IEC 60068, IEC 61683		
Grid Code	VDE-AR-N 4105, IEC61727, IEC62116, EN 50549		
Warranty	6 Years/10 Years(Optional)		

Remarks: The range of output voltage and frequency may vary depending upon different grid codes. Specifications are subject to change without advance notice.



5G SERIES

SM-50K-5G3P | SM-60K-5G3P



GRID-TIED

SOLAR STRING INVERTERS
3 PHASE & QUAD MPPT



Smart



Efficient



Reliable

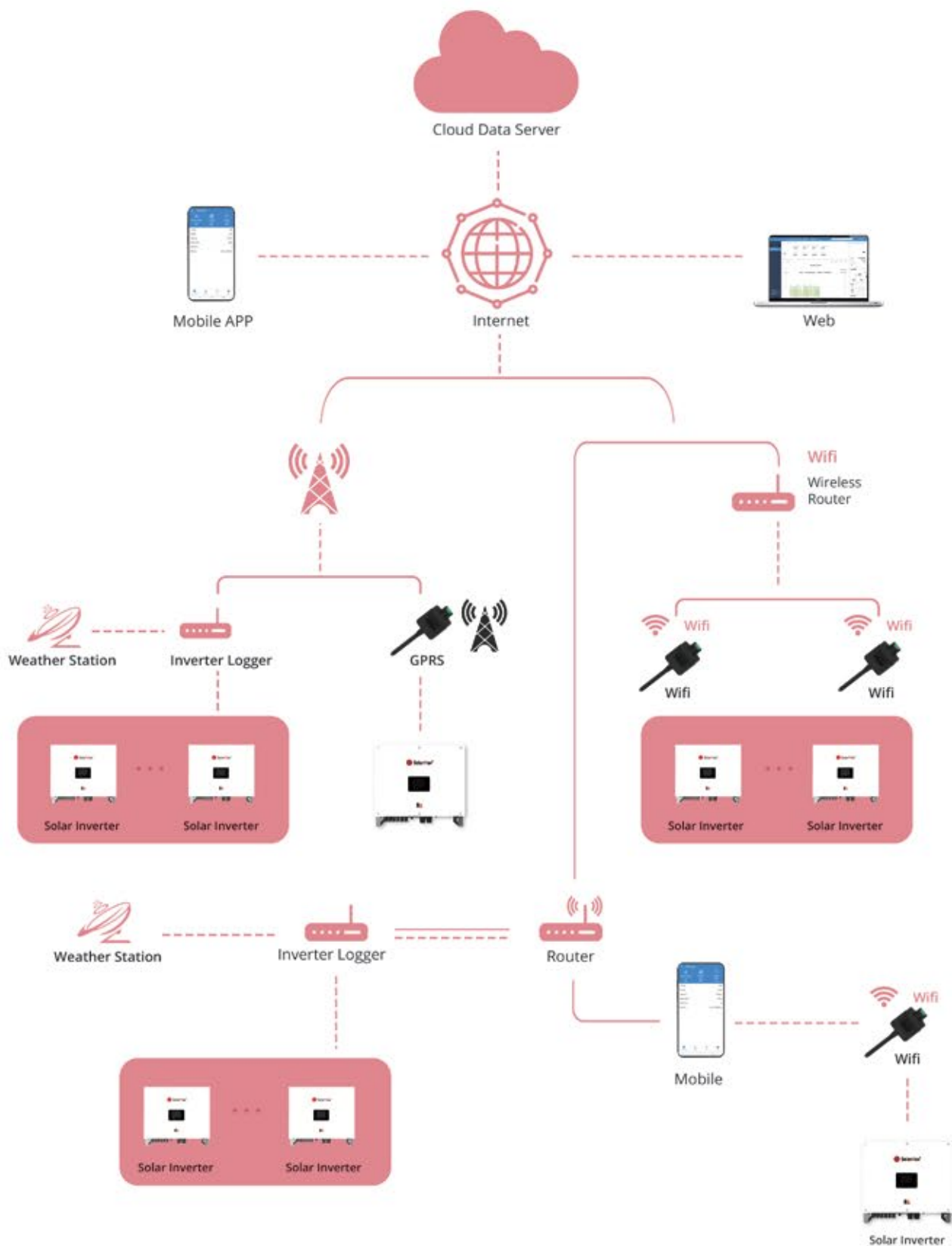


Safe

Model	SM-50K-5G3P	SM-60K-5G3P
Efficiency		
Max. Efficiency	99.0%	99.0%
European Efficiency	98.5%	98.5%
MPPT Efficiency	>99%	
Input(PV)		
Max. Input Power (KW)	70	84
Max. Input Voltage	1100V	
Rated Input Voltage	620V	
Max. Input Current	110A (33A/33A/22A/22A)	132A (33A/33A/33A/33A)
Max.Short Circuit Current	140A(42A/42A/28A/28A)	168A(42A/42A/42A/42A)
MPPT Operating Voltage Range	250V/200V	
	200V-1000V	
	540V-850V	
Max. Number of PV Strings	10(3/3/2/2)	12(3/3/3/3)
No. of MPPTs	4	
Output(Grid)		
Rated AC Active Power	50,000W	60,000W
Max. AC Apparent Power	55,000VA	66,000VA
Max. AC Active Power (PF=1)	55,000W	66,000W
Max. AC Output Current	3*76A	3*92A
Rated AC Voltage	380V/400V, 3W+N+PE	
AC Voltage Range*	277V-520V(Adjustable)	
Rated Grid Frequency	50Hz/60Hz	
Grid Frequency Range**	45Hz-55Hz/55Hz-65Hz(Adjustable)	
THDI	<3%(Rated Power)	
DC Current Injection	<0.5%In	
Power Factor	> 0.99 Rated power(Adjustable 0.8 Leading - 0.8Lagging)	
Protection		
DC switch	Support	
Anti-islanding protection	Support	
AC overcurrent protection	Support	
AC short circuit protection	Support	
DC reverse connection	Support	
Surge Arrester	DC Type II/AC Type II	
Insulation detection	Support	
Leakage current protection	Support	
General		
Topology	Transformerless	
IP Rating	IP65	
Night Self Consumption	<1W	
Cooling	Fan cooling	
Operating Temperature Range	-25°-60°	
Relative Humidity Range	0-100%	
Max. Operating Altitude	4000m	
Noise	<65dB	
Dimensions (W*H*D)	855*555*275mm	
Weight	65KG	67KG
HMI & COM		
Display	Bluetooth , APP, LED & LCD	
Communication	WiFi, RS485, GPRS(Optional)	
Certification		
Safety	IEC62109-1, IEC62109-2	
Others	IEC 60068, IEC 61683	
Grid Code	VDE-AR-N 4105, IEC61727, IEC62116, EN 50549	
Warranty	6 Years/10 Years(Optional)	

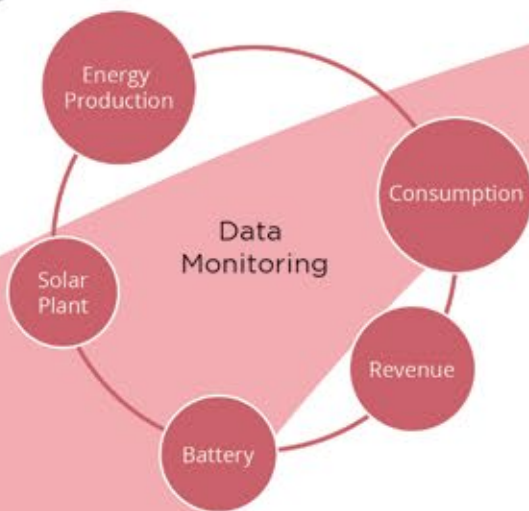
Remarks: The range of output voltage and frequency may vary depending upon different grid codes.
Specifications are subject to change without advance notice.

MONITORING & DATA LOGGING SOLUTIONS

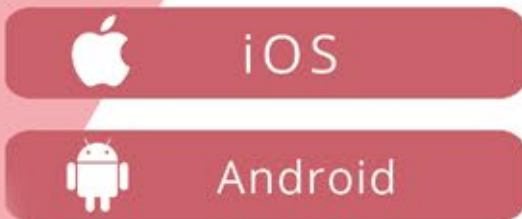


SMART SOLAR CLOUD

- Web-based management and monitoring, with cloud platform support.
- Compatible with various equipment: string inverter, battery storage inverter, micro-inverter, combiner, meter, meteorological sensor, etc.
- Various & intuitive icon, clearly display plant data: historical/real-time yield, solar source, etc.
- Real-time alerts & customized report.
- New social-networking function: follow other plants, share ideas.
- Stimulate PV plant building, assess aystem revenue before building actual plants.



SMART MOBILE APP



One-step management PV platform to share with 150,000+ users worldwide

- Compatible for various devices, monitor system status comprehensive.
- New configuration functions, simple on-site configuration merely with a smartphone.
- Customized PV plant profile, upload picture on your own plants.
- Interact and share experience with user worldwide.
- Comply with European GDPR Standard.
- String Monitoring.
- Intelligent data analysis.

COMMUNICATION ACCESSORIES

WIFI COMMUNICATION MODULE SM WIFI-R

- Plug and play, quick and convenient
- Preferred monitoring solution for residential us



GPRS COMMUNICATION MODULE SM GPRS-R

- Plug and play, quick and convenient
- Mobile internet monitoring, best suited for rural and remote areas



RS485 COMMUNICATION MODULE SM 485

- Plug and play, quick and convenient



DATA LOGGER SM-V1000+

- Built-in Web Server, supporting LAN monitoring
- 12 Months data storage
- Automatic network-clock synchronization
- RS485 Interface for the Connection of Inverters
- Standard RJ45 Patch Cable
- Supports export control



Model	SM WIFI-R
Connection	TTL
Standards	802.11 b/g/n
Transmission maximum distance	100m Unobstructed environment
Setting	APP/WEB
Input	
Input Voltage	DC 5V
Static Power Consumption	<1.6W
General	
Operating temperature	-25°C~60°C
Humidity	0%~100% relative humidity, no condensation
IP Rating	IP65
Dimension (L*W*H)	71.4*71*38mm
Certification	
Safety	FCC, CE, ROHS

Model	SM GPRS-R
Connection	TTL
Standards	GSM/GPRS
Transmission maximum distance	---
Setting	Plug and Play
Input	
Input Voltage	DC 5V
Static Power Consumption	<2W
General	
Operating temperature	-25°C~60°C
Humidity	0%~100% relative humidity, no condensation
IP Rating	IP65
Dimension (L*W*H)	71.4*71*38mm
Certification	
Safety	FCC, CE, ROHS

Model	SM 485
Connection	TTL
Standards	RS485
Transmission maximum distance	1200m
Setting	Plug and Play
Input	
Input Voltage	DC 5V
Static Power Consumption	<1W
General	
Operating temperature	-25°C~60°C
Humidity	0%~100% relative humidity, no condensation
IP Rating	IP65
Dimension (L*W*H)	75.5*70.9*37.9mm
Certification	
Safety	FCC, CE, ROHS

Model	SM-V1000+
Connection	Inverter: RS485 Router: RJ45
Access Number	40pcs
Transmission maximum distance	1200m
Display	LED
Input	
Input Voltage	Input: AC 90V-250V 50/60Hz Output: DC 5V
Static Current Consumption	1A
General	
Operating temperature	-25°C~55°C
Humidity	10%~95% relative humidity, no condensation
IP Rating	IP20
Dimension (L*W*H)	118*78*29mm
Certification	
Safety	FCC, CE, ROHS



SolarMaxOfficial



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