

Stock Code:300763.SZ

solis  
inverters

# Global string inverter manufacturer



  
GINLONG

Ningbo Ginlong Technologies Co.,Ltd.

Quality Experience Reliability

## COMPANY PROFILE

Established in 2005, Ginlong (Solis) (Stock Code: 300763.SZ) is one of the oldest and largest global string inverter specialists. We manufacture interactive grid tie inverters designed to convert DC to AC power. We supply to residential, commercial and utility scale solar markets satisfying home owners, business owners, utilities, solar developers and investors. They all benefit from our Solis product range consisting of ultra-reliable, bankable, cost effective and innovative string inverter technologies. Solis inverters are supplied and installed globally and are modified to optimize their performance in various markets around the world. Our service teams are experienced locals delivering significant long term benefits to stakeholders that enjoy increased return on investment and support the transition to a more sustainable future.







# Company History

2005	Ginlong company officially established in Ningbo, China
2006	Ginlong inverter was the second inverter certified to UK G83 certification
2009	First Asian inverter to achieve USA UL1741 certification
2009	First string inverter manufacturer passed DNV-GL PVEL reliability testing
2010	Ginlong inverter was the second Asian inverter certified to AS4777/AS 3100
2013	IEC61400-2 annual meeting was mainly held by Ginlong
2015	Ginlong inverter installed on Eiffel Tower in Paris
2015	Top 12 inverter sales in Europe
2016	To be listed Asia PV innovation company
2016	Awarded as the Best Distributed Inverter Brand
2015&2016	Top 3 PV string inverter brand value in China
2017	Top 4 global three-phase string inverter market shares(MWac)-GTM Research
2016&2017	Top 5 global single-phase string inverter market shares(MWac)-GTM Research
2017&2018	Ginlong got the APVIA Technology Achievement Award
2016, 2017&2018	Top 3 energy storage inverter supplier in China
2015, 2016, 2017&2018	No.1 inverter sales for distributed PV in UK
2016, 2017, 2018&2019	Ginlong awarded TOP BRAND PV Inverters by EuPD Research
2019	Ginlong listed as a Public Company



# Production Process



Ginlong Solis production line is vertically integrated through the whole manufacturing process. Starting from the production of the original SMT circuit board right through to final testing we use fully automatic production equipment and highly specialised “whole of process” inspection procedures. This ensures Ginlong Solis have international standard technical and quality assurance practices throughout the manufacturing system.

# World's leading brands 100%

Capacitors, Inductors



Connectors, Switching Devices



Materials, IC Categories



Power Devices, Sensors



# Global Service Network



## Global service network

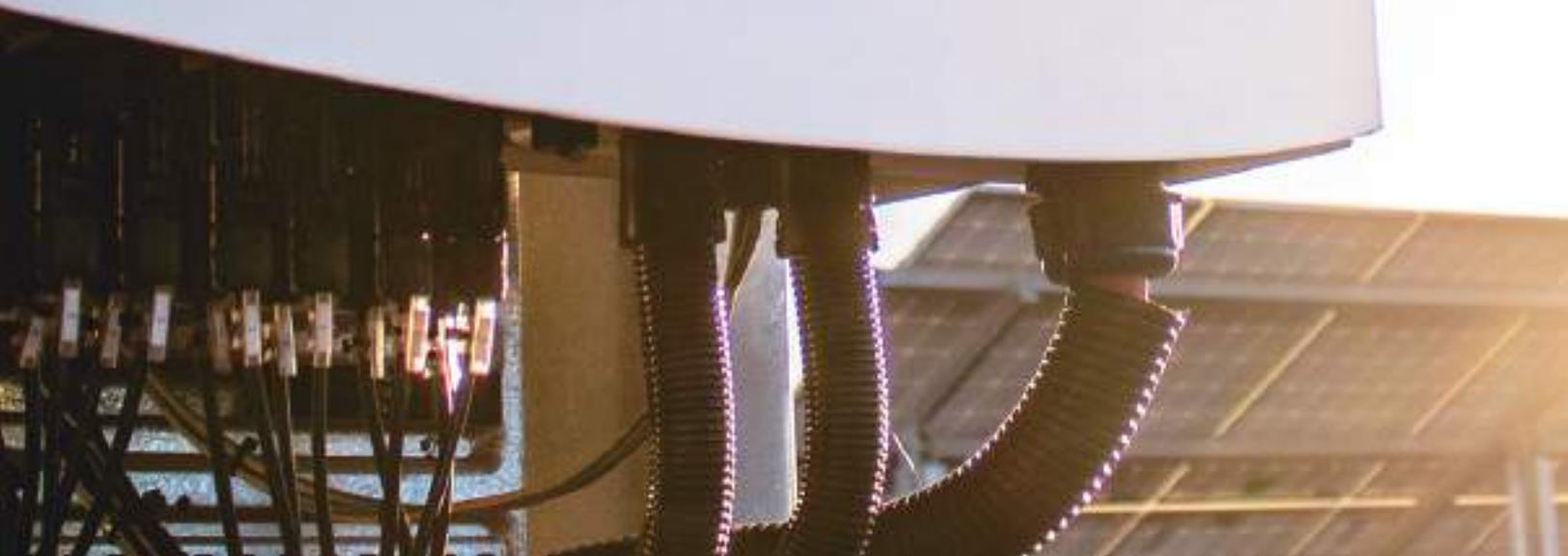
- America · Australia · Mexico · UK
- China · Spain · India · Brazil

## Service

- Unequaled expertise and experience across 80 countries
- High reliability
- Fast efficient service
- Technical and service support based in-China, USA, Australia, UK, Central America, Brazil, Europe and India



 solis



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# Solis-mini-(700-3600)-4G,Solis-mini-(1500-2500)-4G-WP

## Solis 4G Mini Series Inverters



### Features:

- ▶ Mini series - Extended to 3600W
- ▶ High frequency switching technology-Smaller, smarter
- ▶ 24-hour load consumption monitoring
- ▶ DRM integrated, fully comply with AS4777.2:2015
- ▶ Compact and lightweight
- ▶ 50V-500V input voltage range-ultra low startup
- ▶ Over 97.5% Max. efficiency
- ▶ Precise MPPT algorithm
- ▶ Intergrated Export Power Manager (EPM)
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-plus access to Android and Apple apps



### Model:

Solis-mini-700-4G	Solis-mini-1000-4G
Solis-mini-1500-4G	Solis-mini-2000-4G
Solis-mini-2500-4G	Solis-mini-3000-4G
Solis-mini-3600-4G	Solis-mini-1500-4G-WP
Solis-mini-2000-4G-WP	Solis-mini-2500-4G-WP

## Datasheet

Model Name	Solis-mini-700-4G	Solis-mini-1000-4G	Solis-mini-1500-4G	Solis-mini-2000-4G	Solis-mini-2500-4G	Solis-mini-3000-4G	Solis-mini-3600-4G	Solis-mini-1500-4G-WP	Solis-mini-2000-4G-WP	Solis-mini-2500-4G-WP
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### Input DC

Max. DC input power(kW)	0.93	1.33	2.0	2.66	3.33	4.0	4.78	2	2.66	3.33
Max. DC input voltage(V)	600									
Nominal DC voltage(V)	200				330			200	330	
Start-up voltage(V)	60				90			60	90	
MPPT voltage range(V)	50-500				80-500			50-500	80-500	
Max. input current(A)	11A						19A	11A		
Max. Short Circuit current for each MPPT	17.2A						30A	17.2A		
MPPT number/ Max input strings number	1/1						1/1	1/1		

### Output AC

Rated output power(kW)	0.7	1	1.5	2	2.5	3	3.6	1.5	2	2.5
Max. apparent output power(kVA)	0.8	1.1	1.7	2.2	2.8	3.3	3.6	1.5	2	2.5
Rated grid voltage(V)	230									
Operation phase	Single Phase									
Rated grid output current(A)	3.0	4.3	6.5	8.7	10.9	13	16	6.5	8.7	10.9
Max. output current(A)	4.4	5.2	8.1	10.5	13.3	15.7	16	7.2	9.6	12.0
Power Factor (at rated output power)	0.8leading ... 0.8lagging									
THDi (at rated output power)	<3%									

### Efficiency

Max. efficiency	97.2%			97.5%			97.2	97.2%		97.5%
EU efficiency	96.5%			96.8%			96.5	96.5%		96.8%
MPPT efficiency	>99.5%						99.5%	>99.5%		

### Protection

DC reverse-polarity protection	Yes									
Insulation resistance monitoring	Yes									
Residual current detection	Yes									
Surge protection	Yes									
Islanding protection	Yes									
Integrated DC switch	Optional									

### General Data

Dimensions(mm)	310W*373H*160D									
Weight (kg)	7.4				7.7			8.5		8.8
Topology	Transformerless									
Self consumption (night)	<1W (Night)						<10W (Night)			
Operating ambient temperature range	-25~60°C									
Relative humidity	0-100%									
Ingress protection	IP65									
Noise emission(typical)	<20dBA									
Cooling concept	Natural convection									
Max. operation altitude	4000m									
Grid connection standard	EN50549, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE4105-2018, G99, IEC 62116							EN50549, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE4105-2018, G99, IEC 62116		
Safety/EMC standard	IEC62109-1/-2, NBT32004-2018, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4							IEC62109-1/-2, NBT32004-2018, EN61000-6-1, EN61000-6-3		

### Features

DC connection	MC4									
AC connection	IP67 rated plug									
Display	LCD, 2x20 Z.									
Communication connections	4 Pin RS485 connector									
Monitoring	WiFi or GPRS									
Warranty	5 years (extend to 20 years)									
DRM function for AUS	Integrated DRM function for AUS									

# Solis-1P(2.5-5)K-4G,Solis-1P5K-4G-MX

## Solis 4G Single Phase Inverters



### Features:

- ▶ Solis 1P 4G Single Phase Range
- ▶ High frequency switching technology - Smaller, smarter
- ▶ 24-hour load consumption monitoring
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Intergrated Export Power Manager(EPM)
- ▶ Over 98.1% Max. efficiency
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-plus access to Android and Apple apps



### Model:

Solis-1P2.5K-4G  
 Solis-1P3.6K-4G  
 Solis-1P4.6K-4G  
 Solis-1P5K-4G-MX

Solis-1P3K-4G  
 Solis-1P4K-4G  
 Solis-1P5K-4G

## Datasheet

Model Name	Solis-1P2.5K-4G	Solis-1P3K-4G	Solis-1P3.6K-4G	Solis-1P4K-4G	Solis-1P4.6K-4G	Solis-1P5K-4G	Solis-1P5K-4G-MX
<b>Input DC</b>							
Max. DC input power(kW)	3.3	4.0	4.8	5.3	6.1	6.7	6.7
Max. DC input voltage(V)	600						
Nominal DC voltage(V)	330						
Start-up voltage(V)	120						
MPPT voltage range(V)	90-520						
Max. input current(A/B)	11A+11A						
Max. Short Circuit current for each MPPT	17.2A+17.2A						
MPPT number/Max input strings number	2/2						
<b>Output AC</b>							
Rated output power(kW)	2.5	3	3.6	4	4.6	5	
Max. apparent output power(kVA)	2.8	3.3	4	4.4	5	5	
Rated grid voltage(V)	230						
Operation phase	Single Phase						
Rated grid output current(A)	10.9	13	15.7	17.4	20	21.7	
Max. output current(A)	13.3	15.7	16	21	23.8A(21.7 for AUS)	25A(21.7 for AUS)	
Power Factor (at rated output power)	0.8leading ... 0.8lagging						
THDi (at rated output power)	<3%						
DC injection current	<0.5%In						
<b>Efficiency</b>							
Max. efficiency	97.8%			98.1%			
EU efficiency	97.1%			97.3%			
MPPT efficiency	>99.5%						
<b>Protection</b>							
DC reverse-polarity protection	Yes						
Insulation resistance monitoring	Yes						
Residual current detection	Yes						
Surge protection	Yes						
Islanding protection	Yes						
Integrated DC switch	Optional						
<b>General Data</b>							
Dimensions(mm)	310W*543H*160D						
Weight (kg)	11.5						
Topology	Transformerless						
Self consumption (night)	<10W (Night)						
Operating ambient temperature range	-25~60°C						
Relative humidity	0~100%						
Ingress protection	IP65						
Noise emission(typical)	<20dBA						
Cooling concept	Natural convection						
Max. operation altitude	4000m						
Designed lifetime	>20 years						
Grid connection standard	EN505049, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105, G98, G99, IEC 62116						
Safety/EMC standard	IEC62109-1/-2, NB/T 32004, EN61000-6-2, EN61000-6-3						
<b>Features</b>							
DC connection	MC4						
AC connection	IP67 rated plug						
Display	LCD, 2×20 Z.						
Communication connections	4 pins RS485 connector						
Monitoring	WiFi or GPRS						
Warranty	5 years standard (extend to 20 years)						
DRM function for AUS	Integrated DRM function for AUS						

# Solis-3P(5-10)K-4G-AU, Solis-3P(12-20)K-4G Solis-3P5K-4G-AU-MX

## Solis 4G Three Phase Inverters



### Features:

- ▶ Solis 3P 4G Three Phase Range
- ▶ 160V-850V MPPT voltage range- ultra low startup
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ THDi<1.5%, low harmonic distortion against grid
- ▶ Over 98.7% Max. efficiency
- ▶ Multiple protections functions
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-plus access to Android and Apple apps



### Model:

- |                     |                   |                  |
|---------------------|-------------------|------------------|
| Solis-3P5K-4G-AU    | Solis-3P6K-4G-AU  | Solis-3P8K-4G-AU |
| Solis-3P9K-4G-AU    | Solis-3P10K-4G-AU | Solis-3P12K-4G   |
| Solis-3P15K-4G      | Solis-3P17K-4G    | Solis-3P20K-4G   |
| Solis-3P5K-4G-AU-MX |                   |                  |

## Datasheet

Model Name	Solis-3P5K-4G-AU	Solis-3P5K-4G-AU-MX	Solis-3P6K-4G-AU	Solis-3P8K-4G-AU	Solis-3P9K-4G-AU	Solis-3P10K-4G-AU	Solis-3P12K-4G	Solis-3P15K-4G	Solis-3P17K-4G	Solis-3P20K-4G	
<b>Input DC</b>											
Max. DC input power(kW)	10	10	12	12	13.5	15	18	22.5	24	24	
Max. DC input voltage(V)	1000										
Nominal DC voltage(V)	600										
Start-up voltage(V)	180										
MPPT voltage range(V)	160-850										
Max. input current(A/B)	22A+11A				22A+22A						
Max. Short Circuit current for each MPPT	34.3A+17.2A				34.3A+34.3A						
MPPT number/ Max input strings number	2/2				2/4						
<b>Output AC</b>											
Rated output power(kW)	5	4.999	6	8	9	10	12	15	17	20	
Max. apparent output power(kVA)	5.5	4.999	6.6	8.8	9.9	11	13.2	16.5	18.7	22	
Rated grid voltage(V)	400										
Rated grid frequency(Hz)	50/60										
Operation phase	Three Phase										
Rated grid output current(A)	7.2	7.2	8.7	11.5	13.0	14.4	17.3	21.7	24.6	28.9	
Max. output current(A)	7.9	7.9	9.5	12.7	14.3	15.9	19.1	23.8	27	31.8	
Power Factor (at rated output power)	0.8leading ... 0.8lagging										
THDi (at rated output power)	<1.5%										
<b>Efficiency</b>											
Max. efficiency	98.3%				98.7%						
EU efficiency	97.8%				98.1%						
MPPT efficiency	>99.5%										
<b>Protection</b>											
DC reverse-polarity protection	Yes										
Insulation resistance monitoring	Yes										
Residual current detection	Yes										
Surge protection	Yes										
Grid monitoring	Yes										
Islanding protection	Yes										
<b>General Data</b>											
Dimensions(mm)	563*310*219mm										
Weight (kg)	18.9							19.8			
Topology	Transformerless										
Self consumption (night)	<1W (Night)										
Operating ambient temperature range	-25~60°C										
Relative humidity	0~100%										
Ingress protection	IP65										
Noise emission(typical)	<60 dBA										
Cooling concept	Intelligent fan-cooling										
Max. operation altitude	4000m										
Grid connection standard	EN50549, AS4777, VDE0126-1-1, IEC61727, G98, G99										
Safety/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4										
<b>Features</b>											
DRM	Yes										
DC connection	MC4										
AC connection	Terminal connectors										
Display	LCD, 2x20 Z.										
Communication connections	4 Pin RS485 connector										
Monitoring	WiFi or GPRS										
Warranty	5 years (extend to 20 years)										

# Solis-(20-33)K,Solis-30K-MX

## Solis Three Phase Inverters



### Features:

- ▶ Solis Three Phase Range
- ▶ Over 98.7% Max. efficiency
- ▶ 200V-800V MPPT voltage range-ultra low startup
- ▶ 7.0" LCD color screen display
- ▶ Four MPPT design with precise MPPT algorithm
- ▶ Compact and light design, easy installation
- ▶ IP65 rated for outdoor installation
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-plus access to Android and Apple apps



### Model:

Solis-25K	Solis-25K	Solis-30K
Solis-33K	Solis-30K-MX	

## Datasheet

Model Name	Solis-20K	Solis-25K	Solis-30K	Solis-33K	Solis-30K-MX
<b>Input DC</b>					
Max. DC input power(kW)	27	33	40	44	40
Max. DC input voltage(V)	1000				
Nominal DC voltage(V)	600				
Start-up voltage(V)	350				
MPPT voltage range(V)	200-800				
Max. input current(A/B/C/D)	18A+18A+18A+18A				
Max. Short Circuit current for each MPPT	23.4A+23.4A+23.4A+23.4A				
MPPT number/Max input strings number	4/8				
<b>Output AC</b>					
Rated output power(kW)	20	25	30	33	29.99
Max. apparent output power(kVA)	22	27.5	33	33	29.99
Rated grid voltage(V)	400				
Rated grid frequency(Hz)	50/60				
Operation phase	Three Phase				
Rated grid output current(A)	28.7	36.1	43.3	47.8	43.3
Max. output current(A)	33.3	41.7	50	50	50
Power Factor (at rated output power)	0.8leading ... 0.8lagging				
THDi (at rated output power)	<3%				
<b>Efficiency</b>					
Max. efficiency	98.6%		98.7%		98.6%
EU efficiency	98.3%				
MPPT efficiency	>99.9%				
<b>Protection</b>					
DC reverse-polarity protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
Surge protection	Yes				
Islanding protection	Yes				
Integrated DC switch	Optional				
<b>General Data</b>					
Dimensions(mm)	530W*700H*356.5D				
Weight (kg)	57.2	58.2			
Topology	Transformerless				
Self consumption (night)	<1W (Night)				
Operating ambient temperature range	-25~60°C				
Relative humidity	0~100%				
Ingress protection	IP65				
Noise emission(typical)	<30 dBA				
Cooling concept	Natural convection				
Max. operation altitude	4000m				
Grid connection standard	EN50438, AS4777, VDE0126-1-1, IEC61727, G99, IEC 62116				
Safety/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4				
<b>Features</b>					
DC connection	MC4				
AC connection	Terminal connectors				
Display	7.0" LCD color screen display				
Communication connections	4 pins RS485 connector , 2 RJ45 connector				
Monitoring	WiFi or GPRS				
Warranty	5 years (extend to 20 years)				

# Solis-(40-60)K,Solis-(50-60)K-HV

## Solis Three Phase Inverters



### Features:

- ▶ Solis Three Phase Range
- ▶ Over 98.8% Max. efficiency
- ▶ High precision, high speed MPPT algorithm
- ▶ Four MPPT inputs each rated at 28.5A<sub>dc</sub>, compatible with high power modules
- ▶ Compact and light weight design for easy installation
- ▶ IP65, visually pleasing for domestic environment
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ Perfect commercial site monitoring solution
- ▶ Intelligent redundancy fan



### Model:

400V: Solis-40K Solis-50K

480V: Solis-50K-HV Solis-60K-HV

## Datasheet

Model Name	Solis-40K	Solis-50K	Solis-50K-HV	Solis-60K-HV
<b>Input DC</b>				
Max. DC input power(kW)	53	67	67	80
Max. DC input voltage(V)	1100			
Nominal DC voltage(V)	600		720	
Start-up voltage(V)	200			
MPPT voltage range(V)	200-1000			
Max. input current(A/B/C/D)	22A+22A+22A+22A	28.5A+28.5A+28.5A+28.5A	22A+22A+22A+22A	28.5A+28.5A+28.5A+28.5A
Max. Short Circuit current for each MPPT	34.3A+34.3A+34.3A+34.3A	44.5A+44.5A+44.5A+44.5A	34.3A+34.3A+34.3A+34.3A	44.5A+44.5A+44.5A+44.5A
MPPT number/Max input strings number	4/8	4/12	4/8	4/12
<b>Output AC</b>				
Rated output power(kW)	40	50	50	60
Max. apparent output power(kVA)	44	55	55	66
Rated grid voltage(V)	400			
Rated grid frequency(Hz)	50/60			
Operation phase	Three Phase			
Rated grid output current(A)	58	72.2	60.2	72.2
Max. output current(A)	66.9	83.3	66.2	80
Power Factor (at rated output power)	0.8leading ... 0.8lagging			
THDi (at rated output power)	<3%			
<b>Efficiency</b>				
Max. efficiency	98.8%			
EU efficiency	98.4%			
MPPT efficiency	99.9%			
<b>Protection</b>				
DC reverse-polarity protection	Yes			
Insulation resistance monitoring	Yes			
Residual current detection	Yes			
Surge protection	Yes			
Islanding protection	Yes			
Integrated DC switch	Optional			
<b>General Data</b>				
Dimensions(mm)	630W*700H*357D			
Weight (kg)	61	63	61	63
Topology	Transformerless			
Self consumption (night)	<1W (Night)			
Operating ambient temperature range	-25~60°C			
Relative humidity	0~100%			
Ingress protection	IP65			
Noise emission(typical)	< 30 dBA	< 60 dBA	< 30 dBA	< 60 dBA
Cooling concept	Natural convection	Intelligent redundant fan-cooling	Natural convection	Intelligent redundant fan-cooling
Max. operation altitude	4000m			
Grid connection standard	EN50438, G99, AS4777, VDE0126-1-1, IEC61727, IEC 62116			
Safety/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-2, EN61000-6-4, NB/T 32004			
<b>Features</b>				
DC connection	MC4			
AC connection	OT Terminal connectors			
Display	LCD, 2×20 Z.			
Communication connections	4 pins RS485 connector, 2 RJ45 connector, 2 group of terminal block			
Monitoring	WiFi or GPRS			
Warranty	5 years (extend to 20 years)			

# Solis-3P(25-40)K-5G, Solis-3P(40-50)K-HV-5G

## Solis 5G Three Phase Inverters



### Features:

- ▶ 4 MPPT design with precise MPPT algorithm, effectively reducing string mismatch
- ▶ 8 strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- ▶ Up to 30% DC input oversize, 12.5A input for each PV string
- ▶ Over 98.8% Max. efficiency
- ▶ 200V-1000V MPPT voltage range-ultra low startup
- ▶ Fuse free design
- ▶ Type II surge arrester for both DC and AC
- ▶ Natural convection, Fan-less design
- ▶ RS485/ Wifi/ GPRS interface integration, remote upgrade supported



### Model:

- |       |                   |                   |
|-------|-------------------|-------------------|
| 400V: | Solis-3P25K-5G    | Solis-3P30K-5G    |
|       | Solis-3P33K-5G    | Solis-3P36K-5G    |
|       | Solis-3P40K-5G    |                   |
| 480V: | Solis-3P40K-HV-5G | Solis-3P50K-HV-5G |

## Datasheet

Model	Solis-3P25K-5G	Solis-3P30K-5G	Solis-3P33K-5G	Solis-3P36K-5G	Solis-3P40K-5G	Solis-3P40K-HV-5G	Solis-3P50K-HV-5G
<b>Input DC</b>							
Max. DC input power(kW)	33	39	43	47	52	52	65
Max. DC input voltage(V)				1100			
				600			
Start-up voltage(V)				180			
Operating MPPT voltage range(V)				200-1000			
Max. input current(A)	26+26+26			26+26+26+26			
Max. Short Circuit current for each MPPT(A/B/C/D)	40+40+40			40+40+40+40			
MPPT number/Max input strings number	3/A:2; B:2; C:2			4/A:2; B:2; C:2; D:2			
<b>Output AC</b>							
Rated output power(kW)	25	30	33	36	40	40	50
Max. apparent output power(kVA)	27.5	33	36.3	39.6	44	44	55
Rated grid voltage(V)				400		480	
Rated grid frequency(Hz)				50/60			
Operation phase				Three Phase			
Rated grid output current (A)	36	43.3	47.6	51.9	57.7	48.1	60.1
Max. output current(A)	41.8	50.2	55.1	60.2	66.9	53	66.2
Power Factor (at rated output power)				0.8leading ... 0.8lagging			
THDi (at rated output power)				<3%			
<b>Efficiency</b>							
Max. efficiency				98.8%			
CEC efficiency				98.3%			
MPPT efficiency				>99.5%			
<b>Protection</b>							
DC reverse-polarity protection				Yes			
Insulation resistance monitoring				Yes			
Residual current detection				Yes			
Surge protection				DC Type II/ AC Type II			
Islanding protection				Yes			
Integrated DC switch				Optional			
Strings monitoring				Yes			
Anti-PID				Optional			
<b>General Data</b>							
Dimensions(mm)				647W*629H*252D			
Weight(kg)				45			
Topology				Transformerless			
Self consumption (night)				<1W (Night)			
Operating ambient temperature range				-25~60° C			
Relative humidity				0~100%			
Ingress protection				IP65			
Noise emission{typical}				<30 dBA			
Cooling concept				Natural convection			
Max.operation altitude				4000m			
Grid connection standard				EN5049, G99, AS4777, VDE0126-1-1, IEC61727, VDE4105-2018			
Safety/EMC standard				IEC62109-1/-2, AS3100, EN61000-6-2, EN61000-6-3			
<b>Features</b>							
DC connection				MC-4			
AC connection				Terminal board			
Display				LCD, 2×20 Z.			
Communication connections				4pin RS485 *1、RJ45*2、Meter*1、DRM*1 (Optional)			
Monitoring				WiFi or GPRS			
Warranty				5 years (extend to 20 years)			

# Solis-80K-5G, Solis-100K-HV-5G

## Solis 5G Three Phase Inverters



### Features:

- ▶ Max. 13A per string, support 1.5 DC overloading capability
- ▶ 9 individual MPPT, lower mismatch loss
- ▶ Efficient logic algorithm, over 99% max. Efficiency
- ▶ String monitoring, shorter O&M time
- ▶ Remote & local intelligent IV scan function
- ▶ Leakage current repression technology
- ▶ Volt-watt work mode integrated
- ▶ DC input reverse alarm
- ▶ Optional anti-PID function integrated
- ▶ Reactive power compensation function



### Model:

400V: Solis-80K-5G

480V: Solis-100K-HV-5G

## Datasheet

Model Name	Solis-80K-5G	Solis-100K-HV-5G
<b>Input DC</b>		
Recommended Max. DC input power (kW)	112	126
Max. DC input voltage (V)	1100	
Nominal DC voltage (V)	600	720
Start-up voltage (V)	200	
MPPT voltage range (V)	180-1000	
Full load MPPT voltage range (V)	505-850	
Max. input current (A)	26A	
Max. Short Circuit current for each MPPT	40A	
MPPT number/Max input strings number	8/A:2; B:2; C:2; D:2; E:2; F:2; G:2; H:2	9/A:2; B:2; C:2; D:2; E:2; F:2; G:2; H:2; I:2
<b>Output AC</b>		
Rated output power	80kW	100kW
Max. apparent output power	88kVA	110kVA
Max. output power	88kW	110kW
Rated grid voltage	3/N/PE, 230/400V	3/PE, 480V
Rated grid frequency	50Hz/60Hz	
AC Output frequency range	45 ~ 55Hz/55 ~ 60Hz	
Operation phase	Three Phase	
Rated grid current	115.5A	120.3A
Max. output current	133.7A	132.3A
Power Factor (at rated output power)	0.8leading ... 0.8lagging	
THDi (at rated output power)	< 3%	
DC injection current	0.5%In	
<b>Efficiency</b>		
Max. efficiency	99.00%	99.00%
EU efficiency	98.40%	98.40%
MPPT efficiency	99.5%	99.5%
<b>Protection</b>		
Anti-islanding protection	Yes	
DC reverse-polarity protection	Yes	
Insulation resistance monitoring	Yes	
Residual current detection	Yes	
DC Surge protection	Type II /Type I + II	
AC Surge protection	Type II	
Grid monitoring	Yes	
Strings Monitoring	Yes	
I/V Curve scanning	Yes	
Anti-PID function	Yes	
DC are-fault circuit protection	Yes	
Intergarated DC switch	Yes	
Intergarated AC switch	Optional	
<b>General Data</b>		
Dimensins(W*H*D)	1050W*567H*286.5D	
Weight	< 85kg	
Topology	Transformerless	
Self consumption (night)	< 2W	
Operating ambient temperature range	- 25--+60°C	
Relative humidity	0~100%	
Ingress protection	IP66	
Noise emission{typical}	≤ 55dB(A)	
Cooling concept	Intelligent redundant fan-cooling	
Max.operation altitude	4000m	
<b>Standards</b>		
Grid connection standard	EN50549, G99, AS4777.2-2015, VDE0126-1-1, IEC62727, VDE4105-2018, IEE1547, UL1741SA	
Safty/EMC standard	IEC62109-1/-2, NB/T32004-2018, EN61000-6-1, EN61000-6-3, UL1741, FCC	
<b>Features</b>		
DC connection	MC4	
AC connection	OT Terminal connectors	
Display	LCD, 2×20 Z.	
Communication	RS485 /PLC (optional)	
Warranty	5 Years /10 Years /15 Years /20 Years	

# Solis-125K-EHV-5G

Solis 5G Three Phase Inverters



## Features:

- ▶ Maximum 20 strings input, support 1.5 DC/AC inverter load ratio
- ▶ Integrated AC & DC disconnect switches
- ▶ Touch safe DC Fuse holders adds convenience and safety
- ▶ High precision intelligent strings monitoring, reduce fault location time
- ▶ Built-in AC and DC lightning protection module, all-around lightning protection
- ▶ Support Anti-PID function, improve system efficiency
- ▶ Over 99.1% Max. efficiency
- ▶ Ethernet /RS485 multiple communication modes,flexible monitoring
- ▶ WiFi monitoring available-plus access to Android and Apple apps



## Model:

Solis-125K-EHV-5G

## Datasheet

Model	Solis-125K-EHV-5G
<b>Input DC</b>	
Max. DC input power(kW)	187.5
Max. DC input voltage(V)	1500
Nominal DC voltage(V)	950
Start-up voltage(V)	900
Operating MPPT voltage range(V)	860-1450
Max. input current(A)	150
Max. Short Circuit current for each MPPT(A)	300
MPPT number/Max input strings number	1/20
<b>Output AC</b>	
Rated output power(kW)	125
Max. apparent output power(kVA)	125
Max. output power(kW)	125
Rated grid voltage(V)	600
Rated grid frequency(Hz)	60
Operation phase	Three Phase
Rated grid output current (A)	120
Max. output current(A)	120
Power Factor (at rated output power)	0.8leading ... 0.8lagging
THDi	<3%
<b>Efficiency</b>	
Max. efficiency	99.10%
CEC efficiency	98.60%
MPPT efficiency	>99.9%
<b>Protection</b>	
DC reverse-polarity protection	Yes
Residual current detection	Yes
Overvoltage protection	DC II/ AC II
Islanding protection	Yes
DC switch/AC switch	Yes/Yes
DC Fuse	Yes
I/V Curve scanning	Yes
String monitoring	Yes
Anti-PID function	Optional
<b>General Data</b>	
Dimensions (mm)	1178W*713.5H*315D
Weight (kg)	84
Topology	Transformerless
Self consumption (night)	<3W (without anti-PID)
Operating ambient temperature range	- 25~+60°C
Relative humidity	0-100%
Ingress protection	NEMA4X/IP65
Noise emission	≤55dB(A)
Cooling concept	Fan cooling
Max.operation altitude	4000m
Compliance	UL 1741, UL 1741SA, Rule 21, UL 1998, UL 1699B, IEEE 1547,FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1,Rule 21 Phaes II&III
<b>Features</b>	
DC connection	MC4
AC connection	OT Terminal connectors( Max. 185mm <sup>2</sup> )
Display	LCD, 2×20 Z.
Communication connections	RS485, Ethernet
OTA update	Yes
Warranty	5 Years /10 Years /15 Years /20 Years

# RHI-(3-5)K-48ES

Solis Energy Storage Inverters



## Features:

- ▶ Solis Intelligent Hybrid PV Inverter
- ▶ Dual MPPT - 3K, 3.6K, 4.6K, 5K
- ▶ Off-grid backup function
- ▶ Export Control
- ▶ UPS function
- ▶ Intelligent EMS function
- ▶ Multiple protection functions
- ▶ CAN, RS485, WiFi/LAN/GRPS (Optional)



## Model:

RHI-3K-48ES

RHI-3.6K-48ES

RHI-4.6K-48ES

RHI-5K-48ES

## Datasheet

Model Name	RHI-3K-48ES	RHI-3.6K-48ES	RHI-4.6K-48ES	RHI-5K-48ES
<b>Input DC(PV side)</b>				
Max. DC input power(kW)	4	5	6	6.5
The max DC input voltage(V)	600			
Nominal DC voltage(V)	330			
Start-up DC voltage(V)	120			
MPPT operating voltage range(V)	90-520			
The rating max dc input current(A/B)	11A+11A			
Max. Short Circuit current for each MPPT	17.2A+17.2A			
MPPT number/Max input strings number	2/A:1; B:1			
<b>Battery</b>				
Battery Type	Li-ion			
Battery Voltage range(V)	42 -58			
Battery Capacity (Ah)	50-2000			
Maximum Charging Power(kW)	3			
Maximum Charge/discharge current(A)	62.5/62.5			
<b>Output AC(Back-up)</b>				
Rating output power(kW)	3			
Transient max. apparent output power	4kVA, 10sec			
Back-up switch time	<10ms			
Operation phase	Single Phase			
Rated grid voltage(V)	220/230/240			
Rated frequency(Hz)	50/60			
Rated output current(A)	13			
THDi	2%(linear load)			
<b>Output AC(Grid side)</b>				
Rated output power(kW)	3	3.6	4.6	5
Max. apparent output power(kVA)	3.3	4	4.6	5.5
Rated grid voltage	220/230/240Vac			
Rated grid frequency(Hz)	50/60Hz			
Rated grid output current(A)	13	15.7	20.9	21.7
Max. output current(A)	15.7	17.3	23 (21.7 for AUS)	23.9 (21.7 for AUS)
Output power factor	1 (default) and 0.8leading ... 0.8lagging adjustable			
Output THDi	<2%			
<b>Efficiency</b>				
Max efficiency of Solar Inverting	>97.5%			
European efficiency of Solar Inverting	>96.8%			
Max efficiency of Battery Inverting	>95%			
Max efficiency of Battery charging	>95%			
<b>Protection</b>				
Ground fault monitoring	Integrated			
Residual current monitoring unit	Integrated			
DC AFCI	Optional			
DC reverse polarity protection	Yes			
Protection class/Over voltage category	I/III			
<b>General data</b>				
Dimensions (mm)	333W*505H*249D			
Weight(kg)	17			
Operation temperature range	-25~60°C			
Protection degree/ Pollution degree	IP65/ PD3			
Inverter Topology	High frequency isolation (for battery)			
Noise emission (typical)	<20dBA			
Cooling concept	Natural convection			
Max.operation altitude	2000m			
Design lifetime	>20 years			
Grid connection standard	EN50438, G98, G99,AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105			
Safety / EMC standard	IEC62040-1, IEC62109-1/-2, AS3100, NB/T 32004, EN61000-6-2, EN61000-6-3			
AC and DC Connections	Quick Connector			
Display	7.0"LCD color screen display			
Interface	CAN/RS485/WiFi/GPRS optional			
Warranty	5 Years /10 Years /15 Years /20 Years			

# RAI-3K-48ES-5G

## Solis 5G Energy Storage Inverters



### Features:

- ▶ Compatible with any existing grid-tied PV system, option to upgrade the current grid-tied system to a new battery storage system
- ▶ Various work mode for different application scenario
- ▶ Convenient real-time monitoring realized via wireless communication and intelligent debugging APP which support one-click inverter configuration
- ▶ Available to integrate all renewable energy system including solar, wind, fuel cell etc
- ▶ Optional stand alone mode ensures constant power supply for critical load
- ▶ Advanced BMS to enhance the battery usage and guarantee the longer battery lifespan
- ▶ Natural cooling without external fan
- ▶ IP65 degree, applicable for different installation environments



### Model:

RAI-3K-48ES-5G

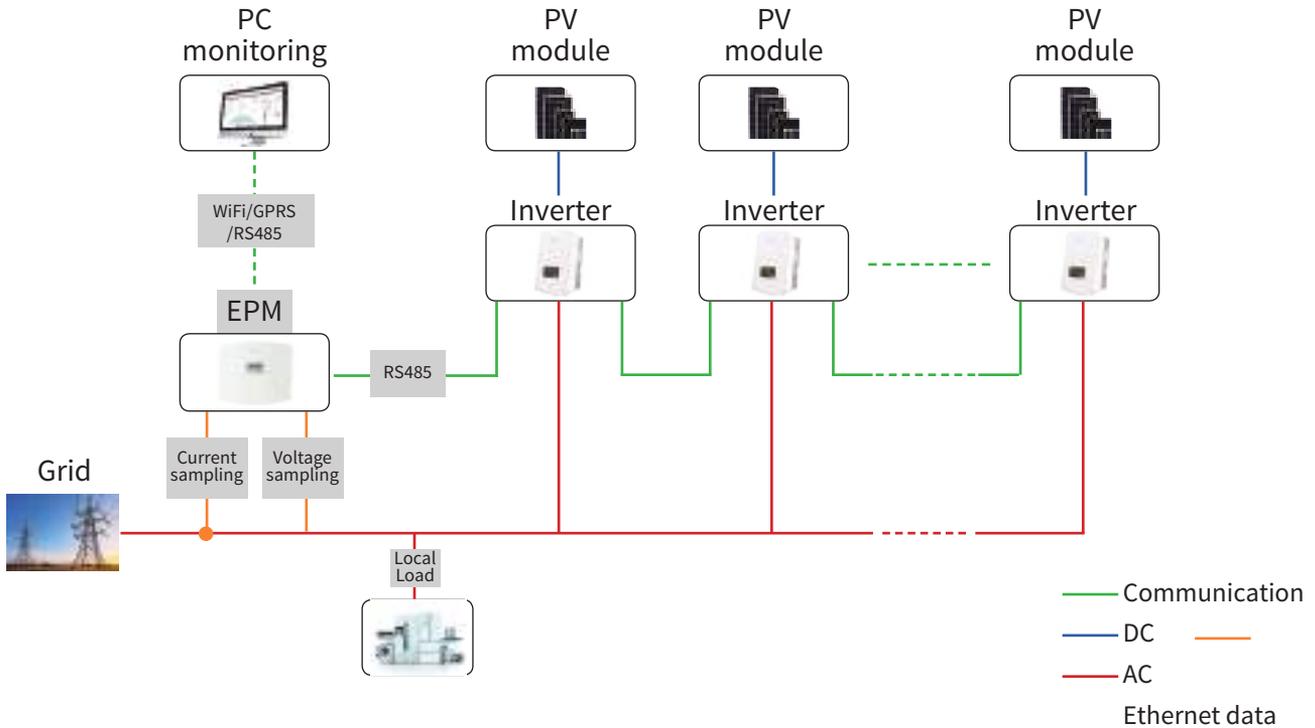
## Datasheet

Model Name	RAI-3K-48ES-5G
<b>AC Output(On Grid)</b>	
Rated AC power(VA)	3000
Max. apparent AC power(VA)	1.5*Prated,10s;1.2*Prated,30s
Rated grid voltage(V)	230
Rated grid Frequency(Hz)	50/60
Rated AC current(A)	13
Displacement power factor	0.8 leading to 0.8 lagging
THDi, rated power	<3%
Operation phase	Single Phase
<b>Battery</b>	
Rated battery voltage(V)	48
Battery voltage range(V)	40-60
Max.charge/discharge power(W)	3300
Max.charge/discharge current(A)	60
Communication interfaces	CAN
Battery Type	Lithium-ion
<b>Efficiency</b>	
Max. Battery charge efficiency	94.0%
Max. Battery discharge efficiency	94.5%
<b>AC Output(Back-up)</b>	
Rated power(VA)	3000
Rated voltage(V),Frequency(Hz)	230,50/60
Rated current(A)	13
Peak output power(W), Duration(s)	1.5*Prated,10s
Switch time(s)	<3
Total harmonic distortion(THDv, linear Load) (%)	<3%
<b>Protection</b>	
Battery reverse protection	YES
Battery over and under voltage protection	YES
Short circuit protection	YES
Output over current protection	YES
Output over voltage protection	YES
temperature protection	YES
<b>Environment Limit</b>	
Ingress protection	IP65
Operating temperature range(°C)	-25°C~60°C
Humidity(%)	0..100%,No Condensing
Altitude(m)	2000
Noise emission(typical)(dB)	<35
<b>System Parameters</b>	
Dimensions (mm)	403W*525H*170D
Weight (kg)	15
Standby Losses	<8W
Cooling concept	Natural
Topology	High frequency isolation
Communication	WiFi, RS485*2, CAN, DRM (logic interface)
Display	LCD & APP
Dry port	2
Standard warranty (year)	5 Years /10 Years
Cetification	IEC62477-1, IEC61000-6-1/-2/-3/-4, VDE4105:2018, VDE0126, IEC62109, IEC62040.1, AS4777.2, G98, G99

# Accessories

## Solis Export Power Manager

### Solis Export Power Manager



### The control center for smart energy management

The Solis export power manager is the ideal solution for smart energy management for both residential and commercial systems. The unit allows you to adjust export values to satisfy local network regulatory requirements.

Energy management with the Solis export power manager allows for higher self-consumption and efficient use of the locally generated PV power.

### Easy to Use

- ▶ Active power limitation and control at the grid-connection point
- ▶ Automatic, intelligent control of loads with up to 6 Ginlong inverters
- ▶ Easy commissioning with the PV System Setup Assistant
- ▶ Ginlong monitoring system

### Flexible

- ▶ Several standardised meter interfaces
- ▶ Individual specifications for controllable appliances

## Datasheet

Model	Solis-EPM1-5G	Solis-EPM3-5G
Technical data	Export Device	

### Communication

Inverter communication	RS485
Monitoring	WiFi/GPRS/Ethernet

### Connections

Inverter connection	Single phase inverters	Three phase inverters
Max. inverter number	80	
Monitoring connection	Wifi stick or GPRS stick for single inverter connection Smartlog for 2-80 inverter connection	
Grid connection	L/N+PE	3L/N+PE

### CT specification

CT connection	Terminal board for CT	
CT Input current range	0-5000A	
Recommended CT Input current range	300A	3000A
CT Ratio	3000:5	

### Voltage supply

Voltage supply	Grid
Input voltage	L to N: 60~ 280 Vac, 50 / 60 Hz L to L: 100~ 480 Vac, 50/60 Hz
Power consumption	<10 W

### Ambient conditions during operation

Ambient temperature	-25°C~+60°C
Degree of protection	IP65
Maximum permissible value for relative humidity (non-condensing)	5 % to 95 %

### General data

Dimensions (mm)	378W*425H*124D
Weight (Kg)	4.9
Mounting location	Indoor and outdoor
Deployment options	Wall mounting

### Features

Operation	Via LCD
Warranty	5 years
Control time	5 s
Fail safe function and control time	Yes, 5 s
Accuracy	0.03
Remote upgrade	Support

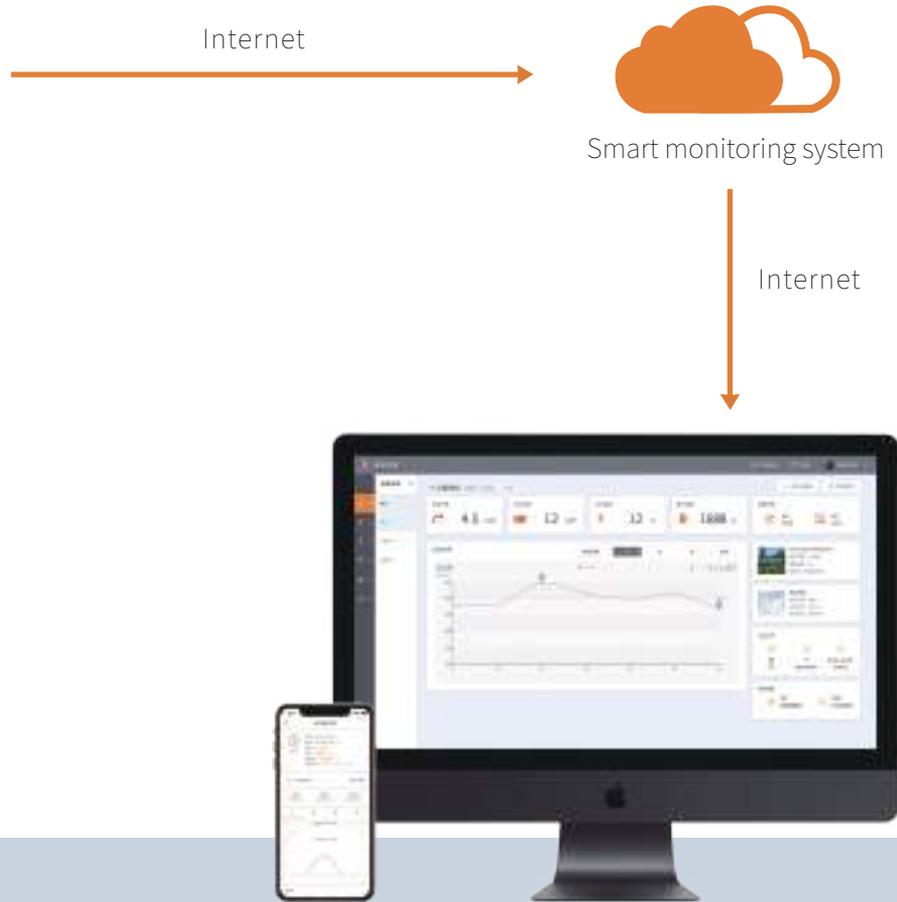
# Accessories

## Solis Data Logging Stick

### Ginlong Monitoring System



Data Logging Stick



Data Logging Stick  
WiFi

Data Logging Stick  
LAN

Data Logging Stick  
GPRS

#### Data Logging Stick: WiFi

Quick installation and easy operation  
Enables local and remote monitoring  
Easy visualisation of data and other information via Internet

#### Data Logging Stick: LAN

Quick installation and easy operation  
No need to set, plug and play function  
LAN communication is stable and reliable remote monitoring

#### Data Logging Stick: GPRS

Quick installation and easy operation  
Connecting inverters with 'plug and play' function  
Easy visualisation of data and other information via mobile device  
GPRS communication enabling mobile monitoring anytime anywhere

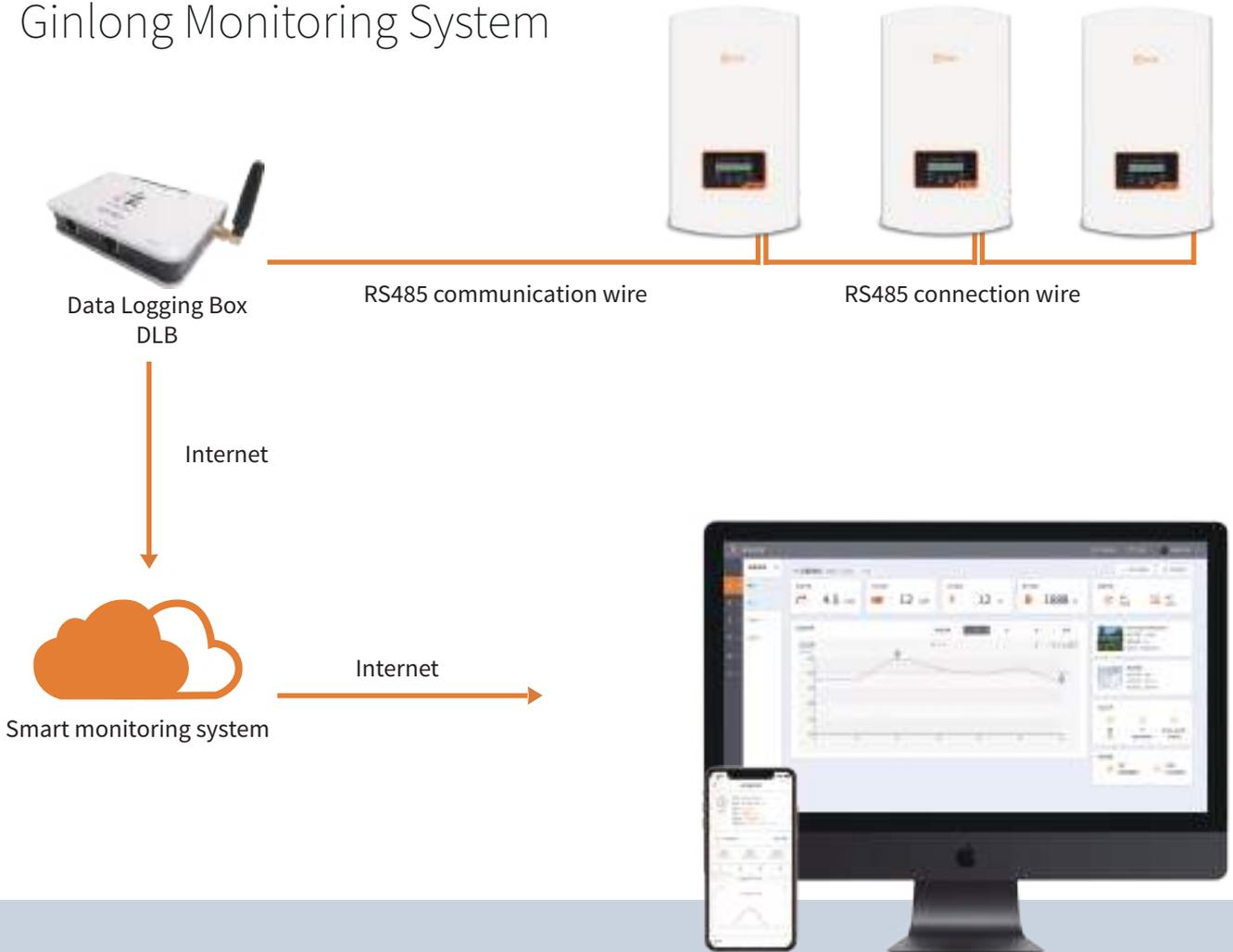
## Datasheet

Model	DLS-W(WiFi)	DLS-L(LAN)	DLS-G(GPRS)
Max.number of inverters	1		
Inverter communication	4pin		
Remote communication	WiFi(802.11 b/g/n)	Ethernet 10/100Mbps	GPRS Class 12
Communication rate	9600 bps(adjustable:1200-57600 bps)		
Frequency	2.412GHz-2.484GHz	/	850/900/1800/1900 MHz
GPRS multi-slot	/	/	/
WiFi communication range	100m in outdoor open area without obstruction	/	/
LAN communication range	/	50m (CAT-5e Shielded Twisted Pair)	/
WiFi transmitting power	802.11b: +20dBm (Max) 802.11g: +18dBm (Max) 802.11n: +15dBm (Max) Configurable by users	/	/
WiFi receiving sensitivity	802.11b: -89dBm 802.11g: -81dBm 802.11n: -71dBm	/	/
GPRS Mobile Station	/	/	ClassC
Compatible with the GSM Phase 2/2 +	/	/	Class 4 (2W@850/900MHz) Class 1 (1W@1800/1900MHz)
External antenna	I-PEX antenna	/	I-PEX antenna
Data collection intervals	5 minutes (adjustable:1-20 minutes)		
Data interface	RS485		
Preferences setting	Web Server		
Firmware updates	Wireless	Ethernet	Wireless
Data access	WiFi point-to-point/Remote server	Remote server	Remote server
Data storage	8MBYTE FLASH	8MBYTE FLASH	8MBYTE FLASH
<b>Electrical</b>			
Input voltage	DC 5V	DC 5V (+/-5%)	DC 5V (+/-5%)
Working current	200mA~300mA	110mA~200mA	160mA~500mA
Static power consumption	/	/	<2W
Max. instantaneous power consumption	/	/	<8W
<b>Environmental</b>			
Operating temperature	-10 ~ +85°C	-10 ~ +85°C	-10 ~ +85°C
Operating humidity	Operating humidity 0%-100% Relative humidity, no condensation		
Storage temperature	-40 ~ +125°C	-40 ~ +125°C	-40 ~ +125°C
Storage humidity	<40%		
Protection class	IP65		
<b>Physical</b>			
Dimensions(mm)	118L*43W*43H	105L*43W*43H	118L*43W*43H
Weight(g)	56		
<b>Other</b>			
Warranty	2 years		
Certificates	FCC, CE		

# Accessories

## Solis Data Logging Box

### Ginlong Monitoring System



Data Logging Box  
DLB

#### Data Logging Box: WiFi

- Quick installation and easy operation
- Monitoring your system and data anytime via WiFi
- Easy visualisation of data and other information via Internet
- Comprehensive analyzing system in case of any possible faults

#### Data Logging Box: GPRS

- Quick installation and easy operation
- GPRS communication supporting remote monitoring
- Multi-functional protections keeping your system fault free
- Keeping users informed of status and data via mobile device

## Datasheet

Model	DLB-W(WiFi)	DLB-G(GPRS)
Max. number of inverters	10	
Inverter communication	RS485	
Remote communication	WiFi(802.11 b/g/n)	GPRS
Max. communication range	<1km	
Communication rate	9600bps (adjustable:1200-57600 bps)	
WiFi frequency	2.4GHz	850/900/1800/1900 MHz
WiFi communication range	300m in outdoor open area without obstruction	/
WiFi transmitting power	802.11b/g/n: +20dBm/+18dBm/15dBm (Max)	Class 4 (2W) / Class 1 (1W)
Data collect intervals	5 minutes (adjustable:1-20 minutes)	
Preferences setting	Web server/Serial AT instruction	Serial AT instruction
Firmware updates	Serial/Wireless	
Data access	Serial/WiFi point-to-point/Remote server	Serial/Remote server
Status display	4 LEDs	

### Electrical

Input voltage	DC 5V	
Static power consumption	<1.6W	<2W
Max.instantaneous power consumption	<2.5W	<8W

### Environmental

Operating temperature	-10 ~ +65°C	
Operating humidity	10%-90% Relative humidity, no condensation	
Storage temperature	-40 ~ +65°C	
Storage humidity	<40%	
Protection class	IP21	

### Physical

Dimensions(mm)	110L*86W*26H	
Weight(g)	108	102

### Other

Warranty	2 years	
Certificates	FCC, CE, RoHS	



Case study







UK ABP Ipswich 1MW



Mexico Soccer Federation 180kW



TTD 10MW



Panama UGE Cochez 3.4MW



Georgia-Boviet Woodland 1.6MW



Urussanga city Santa Catarina 200kW



DEPSA 3.4MW



United States Postal Service (USPS) LA P&DC Facility 13MW



New Mumbai MGM Hospital-Kamothe 355kW



Igrejinha 6kW



Mexican Army 60kW



UK Stockley Park 110kW



Australia-Monash 1MW



Teheran 50kW



Mexico 200kW



RSWM 3.6MW



Brazil- Valinhos 5kW



Brazil 2kW



Jamaica 20kW



Costa Rica 47kW



Joaquim Távola 15kW



Kansas 25kW



California 15kW



Sweden 6kW

Installed On Eiffel Tower





# Case study





Zhejiang HZW 470kW



Zhejiang HONGXING 380kW



Zhejiang PINGHU Bus Station 472kW



Zhejiang CJYIN 1.02MW



Shenzhen Jiangnan Times Building 600kW



Shandong Rong Xiang 4.2MW



Shandong Guangxin Food 6.06MW



Hebei ZQ Steel 1.5MW



Zhejiang-GAOTERUI 260kW



Zhejiang- Wanli Food 800kW



Ninghai AB hall, modern home plaza 1.53MW



Shandong YUELONG 3.5MW



Zhejiang Anboke 2MW



Changzhou Vaillant 2MW



Hunan Yongzhou dao county water plant 800kW



Hainan JiuLongGlass 1.7MW



Hebei Zhangjiakou PV Plant 5.1MW



Liaoning Yingkou Jiuzhai PV plant 20MW



Shanxi Lvliang ZhongYang PV Plant 10.3MW



Hebei Qinghuangdao PV Plant 9.7MW



Shandong Leling PV Plant 50kW



Shanxi Xiyang PV Plant 7.2MW



Qinghai HuzhuBanyan PV Plant 2MW



Hebei Qinghuangdao PV Plant 5MW



Jilin Heishui Fengman PV Plant 5MW



Jilin Jiaoliuhe guangrong PV Plant 2MW



Jiangxi Ganzhou Hengjiang PV Plant 8.45MW



Shandong Weifang Linqu PV Plant 20MW



Hebei Baoding Fuping PV Plant 6.6MW



Shanxi Xinzhou NingWu PV Plant 18.11MW



Shanxi Xinzhou FanShi PV Plant 8MW



Shanxi Yizhou Jingle PV Plant 36.3MW





Anhui Jinzhai Agricultural-photovoltaic hybrid PV plant6MW



Hebei Zhangbei Agricultural-photovoltaic hybrid PV plant 50MW



Shanxi Guangling PV plant 1.47MW



Huaneng Yimin surface mine PV plant 20MW



Jiangxi Ganzhou PV Plant 3.5MW



Inner Mongolia Khobqi Desert 20MW



Zhejiang Hangbu Agricultural-photovoltaic hybrid PV plant 30MW



Hubei Guanyin Agricultural-photovoltaic hybrid PV plant 20MW



Quzhou Qinghu Agricultural-photovoltaic hybrid PV plant 20MW



Zhejiang Jinyun Beitai 21MW



Zhejiang Zhuxi 25MW



Zhejiang Dajie Agricultural-photovoltaic hybrid PV plant 3MW



Zhejiang Longyou Agricultural-photovoltaic hybrid PV plant 25MW



Inner Mongolia Khobqi Desert 336kW



Liaoning Gaizhou Jiuzhai PV plant 20MW



Zhejiang Jiangshan Xintang Reservoir 836kW



Liaoning Jiuzhai Gaizhou PV plant 20MW



Shanxi Lvliang ZhongYang Jiajingtiancheng PV rooftop 450kW



Heilongjiang PV plant

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Zhejiang Largest Photovoltaic Building  
Integrated Village 300kW



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