

Solis-mini-(700-3600)-4G

Solis 4G Mini Series Inverters



Features:

- ▶ Mini series - Extended to 3600W
- ▶ High frequency switching technology-Smaller, smarter
- ▶ 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	

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
Input DC							
Max. DC input power(kW)	0.9	1.2	1.8	2.3	3	3.5	4
Max. DC input voltage(V)				600			
Start-up voltage(V)		60			90		
MPPT voltage range(V)		50-500			80-500		
Max. input current(A)			11A			19A	
Max. Short Circuit current for each MPPT			17.2A			30A	
MPPT number/Max input strings number			1/A:1			1/A:2	
Output AC							
Rated output power(kW)	0.7	1	1.5	2	2.5	3	3.6
Max. apparent output power(kVA)	0.8	1.1	1.7	2.2	2.8	3.3	3.6
Rated grid voltage(V)			220/230				
Rated grid output current(A)	3.2/3.0	4.5/4.3	6.8/6.5	9.1/8.7	11.4/10.9	13.6/13	16
Max. output current(A)	4.4	5.2	8.1	10.5	13.3	15.7	16
Power Factor (at rated output power)			0.8leading ... 0.8lagging				
THDi (at rated output power)			<3%				
Efficiency							
Max. efficiency		97.2%			97.5%		
EU efficiency		96.5%			96.8%		
MPPT efficiency			>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			
Topology		Transformerless					
Self consumption (night)		<1W (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					
Safety / EMC standard		IEC62109-1/-2, NBT32004-2018, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4					
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 /10 Years /15 Years /20 Years					

Solis-1P(2.5-6)K-4G

Solis 4G Single Phase Inverters



Features:

- ▶ Solis 1P 4G Single Phase Range
- ▶ High frequency switching technology - Smaller, smarter
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Integrated 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-1P3K-4G
Solis-1P3.6K-4G	Solis-1P4K-4G
Solis-1P4.6K-4G	Solis-1P5K-4G
Solis-1P6K-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-1P6K-4G
Input DC							
Max. DC input power(kW)	3	3.5	4.2	4.6	5.3	5.8	6.6
Max. DC input voltage(V)	550				600		
Nominal DC voltage(V)	250				330		
Start-up voltage(V)	60				120		
MPPT voltage range(V)	50-450				90-520		
Full load MPPT voltage range(V)	114-400	141-520	169-520	187-520	216-520	234-520	281-520
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/A:1; B:1			
Output AC							
Rated output power(kW)	2.5	3	3.6	4	4.6	5	6
Max. apparent output power(kVA)	2.8	3.3	4	4.4	5	5	6
Rated grid voltage(V)				220/230			
Rated grid output current(A)	11.4/10.9	13.6/13	16/15.7	18.2/17.4	20.9/20	22.7/21.7	27.3
Max. output current(A)	13.3	15.7	16	21	23.8	25	27.3
Power Factor (at rated output power)				0.8leading ... 0.8lagging			
THDi (at rated output power)				<3%			
Efficiency							
Max. efficiency		97.8%			98.1%		
EU efficiency		97.1%			97.3%		
MPPT efficiency				>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*543H*160D			
Weight (kg)				11.5			
Topology				Transformerless			
Self consumption (night)				<1W (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				EN50549, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE4105-2018, G99			
Safety / EMC standard				IEC62109-1/-2, NBT32004-2018, EN61000-6-2, 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 /10 Years /15 Years /20 Years			

Solis-1P(7-10)K-4G

Solis 4G Single Phase Inverters



Features:

- ▶ Solis 1P 4G Single Phase Range
- ▶ High frequency switching technology - Smaller, smarter
- ▶ Three MPPT design with precise MPPT algorithm
- ▶ Over 98.1% Max. efficiency
- ▶ RS485, WiFi/ GPRS (optional) interface
- ▶ WiFi monitoring available - plus access to Android and Apple apps

Model:

- | | |
|---------------|----------------|
| Solis-1P7K-4G | Solis-1P8K-4G |
| Solis-1P9K-4G | Solis-1P10K-4G |

Datasheet

Model Name	Solis-1P7K-4G	Solis-1P8K-4G	Solis-1P9K-4G	Solis-1P10K-4G
Input DC				
Max. DC input power(kW)	8	9.2	10.8	11.5
Max. DC input voltage(V)		600		
Nominal DC voltage(V)		330		
Start-up voltage(V)		120		
MPPT voltage range(V)		100-500		
Max. input current(A/B/C)		10A+10A+10A		
Max. Short Circuit current for each MPPT		15.6A+15.6A+15.6A		
MPPT number/Max input strings number		3/A:1; B:1; C:1		
Output AC				
Rated output power(kW)	7	8	9	10
Max. apparent output power(kVA)	7.7	8.8	9.9	10
Rated grid voltage(V)		220/230		
Rated grid output current(A)	31.8/30.4	36.4/34.8	40.9/39.1	45.5/43.5
Max. output current(A)	33.7	36.6	41.3	45.9
Power Factor (at rated output power)		0.8leading ... 0.8lagging		
THDi (at rated output power)		<1.5%		
Efficiency				
Max. efficiency		98.1%		
EU efficiency		97.6%		
MPPT efficiency		>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)		333W*573H*249D		
Weight (kg)		18		
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		EN50549, AS4777.2:2015, VDE0126-1-1, IEC61727, VDEN4105-2018, G99		
Safety / EMC standard		IEC62109-1/-2, NBT32004-2018, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4		
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 /10 Years /15 Years /20 Years		

Solis-3P(5-20)K-4G

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 levels
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available - plus access to Android and Apple apps

Model:

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

Datasheet

Model Name	Solis-3P5K-4G	Solis-3P6K-4G	Solis-3P8K-4G	Solis-3P9K-4G	Solis-3P10K-4G	Solis-3P12K-4G	Solis-3P15K-4G	Solis-3P17K-4G	Solis-3P20K-4G
Input DC									
Max. DC input power(kW)	6	7.2	9.6	10.8	12	14.5	18	20.4	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)			11A+11A				22A+22A		
Max. Short Circuit current for each MPPT			17.2A+17.2A				34.3A+34.3A		
MPPT number/Max input strings number			2/A:1; B:1				2/A:2; B:2		
Output AC									
Rated output power(kW)	5	6	8	9	10	12	15	17	20
Max. apparent output power(kVA)	5.5	6.6	8.8	9.9	11	13.2	16.5	18.7	22
Rated grid voltage(V)					400				
Rated grid output current(A)	7.2	8.7	11.5	13.0	14.4	17.3	21.7	24.6	28.9
Max. output current(A)	7.9	9.5	12.7	14.2	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%				
Efficiency									
Max. efficiency	98.3%				98.7%				
EU efficiency	97.8%				98.1%				
MPPT efficiency					>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*563H*219D					
Weight (kg)	17.3		18		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)			<30 dBA				<60 dBA		
Cooling concept			Natural convection				Intelligent redundant 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					
Features									
DC connection				MC4					
AC connection				Terminal connectors					
Display				LCD, 2x20 Z.					
Communication connections				4 Pin RS485 connector					
Monitoring				WiFi or GPRS					
Warranty				5 Years /10 Years /15 Years /20 Years					

Solis-(40-60)K, Solis-(50-70)K-HV

Solis Three Phase Inverters



Features:

- ▶ Solis Three Phase Range
- ▶ Over 99.0% Max. efficiency
- ▶ High precise, high speed MPPT algorithm
- ▶ Four MPPT input, each rated current is 28.5A, compatible with high power module
- ▶ Compact and light design for two-person 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 | Solis-60K-4G |
| 480V: | Solis-50K-HV | Solis-60K-HV | Solis-70K-HV-4G |

Datasheet

Model Name	Solis-40K	Solis-50K	Solis-60K-4G	Solis-50K-HV	Solis-60K-HV	Solis-70K-HV-4G
Input DC						
Max. DC input power(kW)	48	60	72	60	72	84
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/A:2; B:2; C:2; D:2	4/A:3; B:3; C:3; D:3	4/A:2; B:2; C:2; D:2	4/A:3; B:3; C:3; D:3		
Output AC						
Rated output power(kW)	40	50	60	50	60	70
Max. apparent output power(kVA)	44	55	66	55	66	77
Rated grid voltage(V)		400			480	
Rated grid frequency(Hz)			50/60			
Operation phase			Three Phase			
Rated grid output current(A)	58	72.2	86.6	60.2	72.2	84.2
Max. output current(A)	66.9	83.3	100	66.2	80	92.6
Power Factor (at rated output power)			0.8leading ... 0.8lagging			
THDi (at rated output power)			<3%			
Efficiency						
Max. efficiency	98.8%		99.0%	99.0%	99.0%	
EU efficiency	98.4%		98.5%	98.72%	98.5%	
MPPT efficiency			>99.9%			
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)			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			
Safety / EMC standard			IEC62109-1/-2, AS3100, EN61000-6-2, EN61000-6-4, NB/T32004			
Features						
DC connection			MC4			
AC connection			OT Terminal connectors			
Display			LCD, 2x20 Z.			
Communication connections			4 Pin RS485 connector, 2 RJ45 connector, 2 group of terminal block			
Monitoring			WiFi or GPRS			
Warranty			5 Years /10 Years /15 Years /20 Years			



Case study



Mexico City 20MW



Mexico-Tamaulipas Airport 5MW



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