



LYBESS Inverter Product Collection



Get to know us

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Solar Inverters

Must High Frequency Off Grid Solar Inverters



PV1800 Series (8KW-10KW)

Introduction:

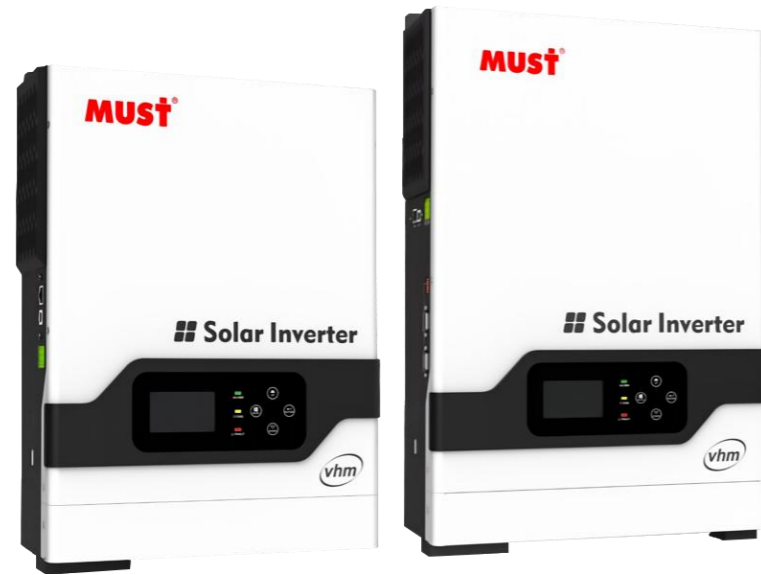
This is a multi-function inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Features:

- ❏ Pure sine wave inverter
- ❏ Compatible to mains voltage or generator power
- ❏ Auto restart while AC is recovering
- ❏ Overload/ Over temperature/ short circuit protection
- ❏ Smart battery charger design for optimized battery performance
- ❏ Cold start function
- ❏ WiFi remote monitoring (optional)
- ❏ Configurable AC/Solar Charger priority via LCD setting
- ❏ Configurable battery charging current based on applications via LCD setting

	MODEL	PV18-8048	PV18-10048
	Nominal Battery System Voltage	48VDC	
Inverter Output	Rated Power	8000W	10000W
	Surge Power	16000W	20000W
	Waveform	Pure Sine Wave	
	AC Voltage Regulation (Batt.Mode)	230VAC±5%	
	Output Frequency	60Hz or 50Hz	
	Inverter Efficiency(Peak)	93%	
	Transfer Time	10ms (UPS) 20ms (APL)	
AC Input	Nominal Input Voltage	230VAC	
	Max AC Input Voltage	300VAC	
	Selectable Voltage Range	170~280VAC (UPS) / 90~280VAC (APL) / 184~253VAC(VDE4105)	
	Frequency Range	50Hz / 60Hz(Auto detection)	
Battery	Normal Voltage	48VDC	
	AC Charging Current	2-120A	
Solar Charger & AC Charger	Maximum PV Array Open Circuit Voltage	145VDC	
	PV Array Open Circuit Voltage	60-130VDC	
	Cold Start Voltage	46VDC	
	Solar Charging Current	160A	
	Default Charging Current	160A	
	Maximum Charge Current	280A	
	Charging Algorithm	3-step (Flooded Battery / AGM / GEL/ LEAD Battery), 4-step(LI)	
Mechanical Specifications	Machine Dimensions(W*H*D)(mm)	503*600*141.2	
	Net Weight(kg)	21.0	
Other	Safety Certification	CE	
	Operating Temperature	0°C~50°C	
	Storage Temperature	-15°C ~60°C	

Must High Frequency Off Grid Solar Inverters



**PV1800 VHM Series
(2KW-5.5KW)**

Introduction:

PV1800 VHM is a multi-functional inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support in portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Features:

- ❖ Pure sine wave inverter
- ❖ Output power factor 1
- ❖ Built-in 80A MPPT solar charger
- ❖ Built-in anti-dust kit for harsh environment
- ❖ Support parallel operation up to 3 units (available for 3KW-5.5KW 48V)
- ❖ WIFI remote monitoring (optional)
- ❖ Compatible to generator

	MODEL	PV18-3048 VHM	PV18-5048 VHM
	Nominal Battery System Voltage	48VDC	
Inverter Output	Rated Power	4000W	5000W
	Surge Power	8000W	10000W
	Waveform	Pure Sine Wave	
	AC Voltage Regulation (Batt.Mode)	(220VAC~240VAC)±5%	
	Inverter Efficiency(Peak)	93%	
	Transfer Time	10ms (UPS / VDE4105) 20ms (APL)	
AC Input	Voltage	230VAC	
	Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE4105)	
	Frequency Range	50Hz / 60Hz(Auto sensing)	
Battery	Normal Voltage	48VDC	
	Floating Charge Voltage	54.8VDC	
	Overcharge Protection	60VDC	
Solar Charger & AC Charger	Maximum PV Array Open Circuit Voltage	145VDC	
	PV Array MPPT Voltage Range	60~130VDC	
	Standby Power Consumption	2W	
	PV Input Power	4000W	
	Maximum Solar Charge Current	80A	
	Maximum Efficiency	98%	
	Maximum AC Charge Current	60A	
Mechanical Specifications	Maximum Charge Current	140A	
	Machine Dimensions(W*H*D)	329*485*134mm	
	Package Dimensions(W*H*D)	425*575*229mm	
	Net Weight(kg)	12	
	Gross Weight(kg)	13.5	
Other	Humidity	5% to 95% Relatiy Humidity (Non-condensing)	
	Operating Temperature	0°C~50°C	
	Storage Temperature	-15°C ~60°C	

Solar Inverters

Must Pure Sine Wave High Frequency Solar Inverters(450V)



**PV1800 PRO Series
(3KW-5.5KW)**

Introduction:

PV1800 PRO is a multi-function inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support in portable size. PV1800 PRO Series can run without battery. The Maximum PV array open circuit voltage can reach 450V and MPPT voltage is 150~430Vdc, which Can help customers make full use of solar energy.

Features:

- ❏ Pure sine wave inverter
- ❏ WIFI remote monitoring (optional)
- ❏ Support USB, RS485 monitoring function
- ❏ Parallel operation with up to 3 units
- ❏ Overload, short circuit and Deep discharge protection
- ❏ Cold start function
- ❏ MAX PV Array Open Circuit Voltage: 450V
- ❏ Can provide the power to the load without battery

	MODEL	PV18-3024 PRO	PV18-3524 PRO	PV18-5248 PRO	PV18-5548 PRO		
	Nominal Battery System Voltage	24VDC		48VDC			
Inverter Output	Rated Power	3000W	3500W	5200W	5500W		
	Surge Power	6000W	7000W	10400W	11000W		
	Waveform	Pure sine wave					
	AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)					
	Inverter Efficiency(Peak)	90%					
	Transfer Time	10ms (UPS / VDE4105) / 20ms (APL)					
AC Input	Voltage	230VAC±5%					
	Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VED4105)					
	Frequency Range	50Hz / 60Hz(Auto sensing)					
Battery	Normal Voltage	24VDC		48VDC			
	Floating Charge Voltage	27.4VDC		54.8VDC			
	Overcharge Protection	30VDC		60VDC			
	Maximum PV Array Open Circuit Voltage	450VDC					
	Charging Algorithm	3-Step (Flooded Battery, AGM / GEL / LEAD Battery), 4-Step (Li)					
Solar Charger & AC Charger	SMaximum PV Array Power	4000W	5000W	6000W	6000W		
	PV Array MPPT Voltage Range	150~430 VDC					
	Maximum Solar Charge Current	80A	100A	100A	80A	100A	120A
	Maximum AC Charge Current	60A	80A	80A	60A	80A	100A
	Maximum Charge Current	80A	100A	100A	80A	100A	120A
Mechanical Specifications	Machine Dimensions(W*H*D)(mm)	322*486*134			309*505*147		
	Package Dimensions(W*H*D)(mm)	426*560*260.5			375*655*269		
	Net Weight(kg)	8		10		14	14.4
	Gross Weight(kg)	9.5		11.5		16.4	16.8
Other	Humidity	5% to 95% Relative humidity (Non-condensing)					
	Operating Temperature	0°C~50°C					
	Storage Temperature	-15°C ~60°C					

Solar Inverters

Must High Frequency Solar Inverters



**PV1800 VPM Series
(1KW-5KW)**

Introduction:

This is a multi-function inverter/charger, combining functions of inverter, MPPT 60A/80A solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

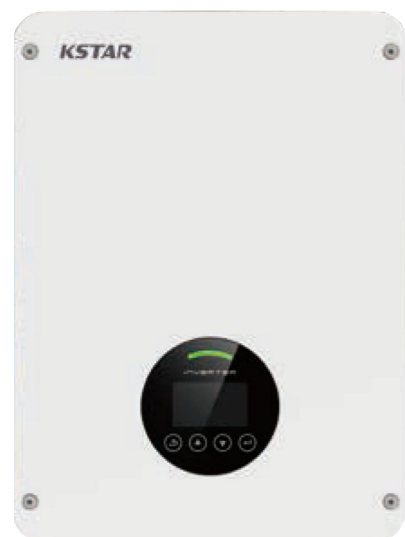
Features:

- ❖ Rated power: 1-5KW
- ❖ Pure sine wave output
- ❖ Bult in MPPT 60A/80A solar charge controller
- ❖ Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- ❖ Overload, short circuit and Deep discharge protection
- ❖ Support USB, RS485 monitoring function
- ❖ WIFI remote monitoring (optional)
- ❖ Support parallel operation up to 3 units (available for 3KW-5KW 48V)

	MODEL	PV18-3024 VPM	PV18-3048 VPM	PV18-5048 VPM
	Default Battery System Voltage	24VDC	48VDC	
Inverter Output	Rated Power	3000W	3000W	5000W
	Surge Power	6000VA	6000VA	10000VA
	Waveform	Pure sine wave		
	AC Voltage Regulation (Batt.Mode)	220VAC~240VAC(Setting)		
	Inverter Efficiency(Peak)	90%~93%		
	Transfer Time	10ms(UPS / VDE4105) / 20ms(APL)		
AC Input	Voltage	230VAC		
	Selectable Voltage Range	170~280VAC(UPS) / 90~280VAC(APL) / 184~253VAC(VDE)		
	Frequency Range	50Hz / 60Hz (Auto sensing)		
Battery	Normal Voltage	24VDC	48VDC	
	Floating Charge Voltage	27.4VDC	54.8VDC	
	Overcharge Protection	30VDC	60VDC	
Solar Charger & AC Charger	Maximum PV Array Open Circuit Voltage	145VDC		
	PV Array MPPT Voltage Range	30~120VDC	60~130VDC	
	Standby Power Consumption	2W		
	Maximum PV Array Power	1500W	4000W	
	Maximum Solar Charge Current	60A	80A	
	Maximum Efficiency	98%		
	Maximum AC Charge Current	20A or 30A	60A	
Mechanical Specifications	Maximum Charge Current	80A	140A	
	Machine Dimensions(W*H*D)(mm)	290*342*125	297.5*468*125	
	Package Dimensions(W*H*D)(mm)	408*412*240	638*395*241	
	Net Weight(kg)	7.4	12	
Other	Gross Weight(kg)	9.5	13.5	
	Humidity	5% to 95% Relativ Humidity (Non-condensing)		
	Operating Temperature	0°C~50°C		
	Storage Temperature	-15°C ~60°C		

Single Phase Inverters

KSTAR Single Phase PV On-Grid Inverters



BluE-G 3000S



BluE-G 5000D

Features:

- Max PV voltage up to 600V DC/AC ratio up to 1.5
- Compatible for big capacity PV panel WiFi/4G Plug optional
- Type II DC SPD/Type III AC SPD IP65 protection
- BluE-G 3000S High efficiency up to 97.6%, BluE-G 5000D High efficiency up to 98.3%, Smaller and lighter

	MODEL	BluE-G 3000S	BluE-G 5000D
Input(DC)	Max. DC Voltage	600Vdc	600V
	Nominal Voltage	380Vdc	380V
	Start Voltage	80V	100V
	MPPT Voltage Range	80V-560V	
	Number of MPP Tracker	1	2
	Strings Per MPP Tracker	1	
	Max. Input Current Per MPPT	13A	15A
Output(AC)	Max. Short-circuit Current Per MPPT	15.6A	18A
	Nominal AC Output Power	3000W	5000W ¹
	Max. AC Apparent Power	3300VA	5000VA ⁴
	Nominal AC Voltage	230V L-N	
	AC Grid Frequency Range	50Hz / 60Hz±5Hz	
	Max. Output Current	14.4A	24A ⁷
	Power Factor (cos)	0.8 leading to 0.8 lagging	
Efficiency	THDi	<3%	
	Max. Efficiency	97.60%	98.3%
	Euro Efficiency	97.00%	97.9%
Protection devices	DC Switch	Yes	
	Anti-islanding Protection	Yes	
	Output Over Current	Yes	
	DC Reverse Polarity Protection	Yes	
	String Fault Detection	Yes	
	Surge Protection	DC Type II;AC Type III	
	Insulation Detection	Yes	
General Specifications	AC Short Circuit Protection	Yes	
	Dimensions W x H x D	350*290*120mm	380X380X150mm
	Weight	8kg	11kg
Environment	Operating Temperature Range	-25°C~60°C	
	Cooling Type	Natural	
	Max. Operation Altitude	4000m	
	Max. Operation Humidity	0-100%	
	AC Output Terminal Type	Quick Connector	
	IP Class	IP65	
	Topology	Transformer-less	
	Communication	RS485/WIFI/4G	
	Display	LCD	
	Certification & Standard	EN/IEC62109, IEC/EN61000, IEC62116, IEC61727, EN50549	EN/IEC62109, IEC/EN61000, IEC61683, IEC60068, IEC60529, IEC62116, IEC61727, EN50549, G98, G99, C10/C11, AS 4777.2, NRS 097, VDE-AR-N-4105, VDE 0126-1-1, CEI0-21, TED749, UNE217001, UNE217002, NB/T32004, GB/T19964, INMETRO

Solis Single Phase Inverters



S6-GR1P(2.5-6)K



Solis-1P(7-8)K-5G

Protection:

Inverters possess DC reverse-polarity protection, Short circuit protection, Output over current protection, Surge protection, Grid monitoring, Anti-islanding protection, Temperature protection, Integrated AFCI (DC arc-fault circuit protection), Integrated DC switch Feature

Features:

- ❏ S6-GR1P3-5K Max efficiency 97.7%
- ❏ Solis-1P8K-5G Max efficiency 98.1%
- ❏ Wide voltage range and low startup voltage
- ❏ MPPT design with precise MPPT algorithm
- ❏ Intergrated Export Power Manager(EPM)
- ❏ AFCI protection, proactively reduces fire risk
- ❏ Compact and lightweight
- ❏ Friendly and adaptable connection to the grid

	MODEL	S6-GR1P3K	S6-GR1P5K	Solis-1P8K-5G
Input(DC)	Recommended max. PV power	4.5 kW	7.5 kW	12 kW
	Max. input voltage	600 V		
	Rated voltage	330 V		
	Start-up voltage	120 V		
	MPPT voltage range	90-520 V		
	Max. input current	14 A / 14 A	12.5 A / 25 A	
	Max. short circuit current	22 A / 22 A	19.5 A / 30 A	
	MPPT number/Max. input strings number	2/2	2/3	
Output(AC)	Rated output power	3 kW	5 kW	8 kW
	Max. apparent output power	3.3 kVA	5 kVA	8 kVA
	Max. output power	3.3 kW	5 kW	8 kW
	Rated grid voltage	1/N/PE, 220 V / 230 V		
	Rated grid frequency	50 Hz / 60 Hz		
	Rated grid output current	13.6 A / 13.0 A	22.7 A / 21.7 A	34.8 A
	Max. output current	15.7 A	25.0 A	34.8 A
	Power Factor	>0.99 (0.8 leading - 0.8 lagging)		
	THDi	<3%		
	Efficiency	Max. efficiency	97.3%	97.7%
EU efficiency		96.6%	97.1%	97.3%
Protection	Integrated DC switch	Optional		
General Data	Dimensions (W*H*D)	310*543*160 mm		310*543*180 mm
	Weight	11.2 kg	12 kg	13.3 kg
	Topology	Transformerless		
	Self consumption (night)	<1 W		
	Operating ambient temperature range	-25 ~ 60°C		
	Relative humidity	0-100%		
	Cooling concept	IP66	IP65	
	Cooling concept	Natural convection		
	Max. operation altitude	4000 m		
	Grid connection standard	G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTEK 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA		
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-3			
Features	DC connection	MC4 connector		
	AC connection	Quick connection plug		
	Display	LCD		
	Communication	RS485, Optional: Wi-Fi, GPRS		

Solplanet Single Phase Inverters



ASW3000S-S



ASW3000/5000-S



Easy-to-install



Reliable



User-friendly

Features:

- 📦 Quick & easy-to-install with basic tools
- 📦 Quick setup and commissioning with Solplanet apps
- 📦 Compact wall mount design
- 📦 International quality standards
- 📦 Integrated DC switch
- 📦 IP65 rated design for outdoor use
- 📦 User friendly app interface
- 📦 Online monitoring via Wi-Fi and Solplanet apps

	MODEL	ASW3000S-S	ASW53000-S	ASW5000-S
Input (DC)	Max. PV array power	4500 Wp STC	4500 Wp STC	7500 Wp STC
	Max. input voltage		580 V	
	MPP voltage range / rated input voltage		80 V to 550 V / 360 V	
	Min. input voltage		80 V	
	Initial. feed in voltage		100 V	
	Max. operating input current		12 A	
	Max. short circuit current		18 A	
	No. of independent MPPT inputs / strings per MPPT input		1 / 1	2 / 1
Output (AC)	Rated active power	3000 W	3000 W	5000 W
	Rated apparent power	3000 VA	3000 VA	5000 VA
	Max. apparent power	3000 VA	3000 VA	5000 VA
	AC nominal voltage		220 V / 230 V / 240 V	
	AC voltage range		180 V to 290 V	
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz	60 Hz / 55 Hz to 65 Hz	
	Max. output current	13.6 A	15A	22.7 A*
	Adjustable power factor range		0.8 leading to 0.8 lagging	
	Feed-in phases		1	
	Harmonic distortion (THD) at rated output		< 3 %	
Efficiency & Protection	Max. efficiency / European efficiency	97.6 % / 97.1 %	97.85% / 97.5%	97.85% / 97.6%
	DC switch		●	
	Ground fault monitoring / grid monitoring		● / ●	
	DC reverse polarity protection / AC short circuit protection		● / ●	
	All-pole-sensitive residual-current monitoring unit		●	
	Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)		I / AC : III ; DC : II	
	Dimensions (W / H / D)	320 / 264 / 94 mm	376 / 355 / 145 mm	
General data	Weight	6.5 kg	12 kg	
	Operating temperature range		-25°C ~ +60°C	
	Self-consumption (at night)		< 1 W	
	Topology		Non-isolated	
	Cooling concept		Natural convection	
	Degree of protection (according to IEC 60529)		IP65	
	Climatic category (according to IEC 60721-3-4)		4K4H	
	Max. permissible value for relative humidity (non-condensing)		100%	
	Max. operating altitude		3000 m	
	Features	DC connection		Plug-in connector
AC connection			Plug-in connector	
Mounting type			Wall-mount bracket	
LED indicators (Status / Fault / Communication)			●	
Communication interfac ^{1&2}			Wi-Fi / RS485 (Optional)	
Country of manufacture			China	
Certificates and approvals (more available on request)			CE, IEC62109, IEC61000, EN50549, AS/NZS 4777, C10/C11, IEC61727, IEC62116, IEC61683	CE, IEC62109, IEC61000, AS/NZS 4777, EN50549, VFR 2014&UTE C15-712-1, CEI 0-21, C10/C11, NBR16149, IEC61727, IEC62116, IEC61683

● Standard features / – not available

*Max. output current limited to 21.7 A when set to the AS/NZS 4777.2 grid code

1- 2-pin RS485 connection to approved smart meters for export power control applications

2- DRED function supported via RS485 for Australia & New Zealand

Three Phase Inverters

KSTAR Three Phase PV On-Grid Inverters



BluE-(3-10)KT

Features:

- ❏ Max PV voltage up to 1100V Type II DC/AC SPD
- ❏ Compatible for big capacity PV panel WiFi/4G Plug optional
- ❏ DC/AC ratio up to 2 IP66 protection
- ❏ High efficiency up to 98.6% Smaller and lighter

	MODEL	BluE-3KT	BluE-5KT	BluE-8KT	BluE-10KT
Input(DC)	Max. DC Voltage	1100V			
	Nominal Voltage	620V			
	Start Voltage	180V			
	MPPT Voltage Range	140 V~1,000 V			
	Number of MPP Tracker	2			
	Strings Per MPP Tracker	1			
	Max. Input Current Per MPPT	15A			
	Max. Short-circuit Current Per MPPT	20A			
Output(AC)	Nominal AC Output Power	3000W	5000W	8000W	10000W
	Maximum AC Output Power	3300VA	5500VA	8800VA	11000VA
	Nominal AC Voltage	400V 3L+N			
	AC Grid Frequency Range	50 / 60Hz(±5Hz)			
	Maximum Output Current	4.8A	8.0A	12.8A	16.0A
	Power Factor (cos)	0.8leading-0.8lagging			
	THDi	3%			
Efficiency	Max. Efficiency	98.4%	98.6%	98.6%	98.6%
	Euro Efficiency	97.5%	98.0%	98.1%	98.1%
Protection devices	DC Switch	Yes			
	Output Over Current	Yes			
	Anti-islanding Protection	Yes			
	DC Reverse Polarity Protection	Yes			
	String Fault Detection	Yes			
	AC/DC Surge Protection	DC: Type II / AC: Type III / Type II Optional			
	Insulation Detection	Yes			
	AC Short Circuit Protection	Yes			
General Specifications	Dimensions W x H x D	380x483x161mm			
	Weight	<17kg			
	Operating Temperature Range	-25°C~+60°C			
	Cooling Type	Natural cooling			
	Max. Operation Altitude	4000m			
	Max. Operation Humidity	0-100%(No condensation)			
	AC Output Terminal Type	Connector			
	IP Class	IP66			
	Topology	Transformer-less			
	Communication	RS485/Wifi/4G			
	Display	LCD			
	Certification & Standard	EN/IEC62109-1/2, IEC/EN61000-6-2, IEC/EN61000-6-4, IEC61683, IEC60068, IEC60529, IEC62116, IEC61727, EN50549-1, AS 4777.2, VDE-AR-N-4105, VDE 0126-1-1, CEI0-21, G98, G99, C10/C11, NB/T32004-2018, GB/T19964-2012			

Solis Three Phase Inverters



S5-GR3P(3-20)K
S5-GR3P(5-10)K-LV

Protection:

Inverters possess DC reverse-polarity protection, Short circuit protection, Output over current protection, Surge protection, Grid monitoring, Anti-islanding protection, Temperature protection, Integrated AFCI (DC arc-fault circuit protection), Integrated DC switch Feature

Features:

- ❏ Compact design, simple installation and maintenance
- ❏ Supports high power modules for lower installation costs
- ❏ Wide voltage range and low startup voltage
- ❏ > 150% DC/AC ratio
- ❏ AFCI protection, proactively reduces fire risk
- ❏ Automatic voltage stabilization technology in weak grid conditions

	MODEL	S5-GR3P3K	S5-GR3P5K	S5-GR3P8K	S5-GR3P10K	S5-GR3P5K-LV	S5-GR3P10K-LV	
Input(DC)	Recommended max. PV power	4.5 kW	7.5 kW	12 kW	15 kW	7.5 kW	15 kW	
	Max. input voltage	1100 V						
	Rated voltage	600 V				330 V		
	Start-up voltage	180 V						
	MPPT voltage range	160-1000 V				160-500 V		
	Max. input current	16 A / 16 A						32 A / 32 A
	Max. short circuit current	20 A / 20 A						40 A / 40 A
Output(AC)	MPPT number/Max. input strings number	2/2				2/4		
	Rated output power	3 kW	5 kW	8 kW	10 kW	5 kW	10 kW	
	Max. apparent output power	3.3 kVA	5.5 kVA	8.8 kVA	11 kVA	5.5 kVA	11 kVA	
	Max. output power	3.3 kW	5.5 kW	8.8 kW	11 kW	5.5 kW	11 kW	
	Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V				3/(N)/PE, 208 V / 220 V / 240 V		
	Rated grid frequency	50 Hz / 60 Hz						
	Rated grid output current	4.6A/4.3A	7.6A/7.2A	12.2A/11.5A	15.2A/14.4A	13.1A	26.2A	
	Max. output current	4.7 A	7.9 A	12.7 A	15.9 A	14.4 A	28.8 A	
	Power Factor	>0.99 (0.8 leading - 0.8 lagging)						
	THDi	<2%						
Efficiency	Max. efficiency	98.3%		98.5%		98.0%		
Protection	EU efficiency	97.7%		97.9%		97.5%		
	Integrated DC switch	Optional						
General Data	Dimensions (W*H*D)	310*563*219 mm						
	Weight	17.8 kg					20 kg	
	Topology	Transformerless						
	Self consumption (night)	<1 W						
	Operating ambient temperature range	-25 ~ +60°C						
	Relative humidity	0-100%						
	Ingress protection	IP66						
	Cooling concept	Natural convection					Intelligent redundant fan-cooling	
	Max. operation altitude	4000 m						
	Grid connection standard	G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC62116, IEC61727, IEC60068, IEC61683, EN 50530						
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4							
Features	DC connection	MC4 connector						
	AC connection	Quick connection plug						
	Display	LCD						
	Communication	RS485, Optional: Wi-Fi, GPRS						

Solplanet Three Phase Inverters



ASW T Series



Easy-to-install Reliable User-friendly

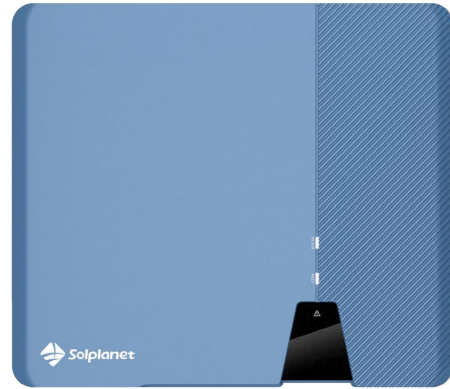
Features:

- ❏ Dual MPPT's for flexible PV array design
- ❏ Quick & easy-to-install with basic tools
- ❏ Quick setup and commissioning with Solplanet apps
- ❏ Compact wall mount design
- ❏ Integrated DC switch
- ❏ Online monitoring via Wi-Fi and Solplanet apps

	MODEL	ASW 3000-T	ASW 5000-T	ASW 8000-T	ASW 10000-T
Input (DC)	Max. PV array power	4500 W _p STC	7500 W _p STC	12000 W _p STC	12000 W _p STC
	Max. input voltage	1000 V			
	MPP voltage range / rated input voltage	125 V to 950 V / 630 V			
	Min. input voltage	130 V			
	Initial. feed in voltage	150 V			
	Max. operating input current	12 A / 12 A			
	Max. short circuit current	18 A / 18 A			
	No. of independent MPPT inputs / strings per MPPT input	2 / A : 1 ; B : 1			
Output (AC)	Rated active power	3000 W	5000 W	8000 W	10000 W
	Rated apparent power	3000 VA	5000 VA	8000 VA	10000VA
	Max. apparent power	3000 VA	5000 VA	8000 VA	10000VA
	AC nominal voltage	220 V / 380 V, 230 V / 400 V, 240 V / 415 V			
	AC voltage range	180 V to 295 V			
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz, 60 Hz / 55 Hz to 65 Hz			
	Max. output current	5 A	8.4 A	13.3 A	15.2 A
	Adjustable power factor range	0.8 leading to 0.8 lagging			
	Feed-in phases / connection type	3 / 3-N -PE			
	Harmonic distortion (THD) at rated output	< 3%			
Efficiency & Protection	Max. efficiency / European efficiency	98.2% / 96.6%	98.2% / 97.5%	98.3% / 98.0%	98.3% / 98.0%
	DC switch	●			
	Ground fault monitoring / grid monitoring	● / ●			
	DC reverse polarity protection / AC short circuit protection	● / ●			
	All-pole-sensitive residual-current monitoring unit	●			
	Surge protection	● / Type II			
	Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I / AC : III ; DC : II			
	Dimensions (W / H / D)	424 / 375 / 172 mm			
	Weight	14 kg			15 kg
	General data	Operating temperature range	-25°C~+60°C		
Self-consumption (at night)		< 1 W			
Topology		Non-isolated			
Cooling concept		Natural convection			Active cooling
Degree of protection (according to IEC 60529)		IP65			
Climatic category (according to IEC 60721-3-4)		4K4H			
Max. permissible value for relative humidity (non-condensing)		100 %			
Max. operating altitude		3000 m			
DC connection		Plug-in connector			
AC connection		Plug-in connector			
Features	Mounting type	Wall-mount bracket			
	LED indicators (Status / Fault / Communication)	●			
	Communication interfac	Wi-Fi / RS485 (Optional)			
	Country of manufacture	China			
	Certificates and approvals (more available on request)	CE, EN50549, G98/99, AS/NZS 4777, C10/C11, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000			

● Standard features / – not available

Solplanet Three Phase Inverters



ASW LT-G2 Pro
ASW LT-G2



Easy-to-install Reliable User-friendly

Features:

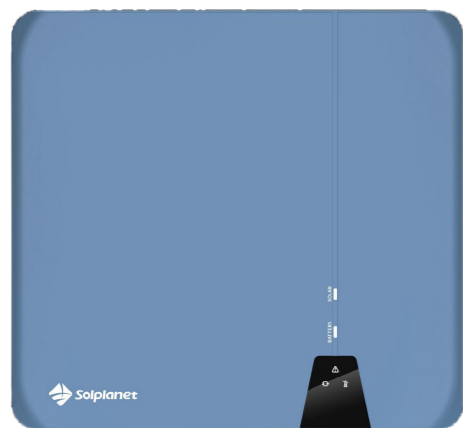
- 📦 150 % PV array oversizing for higher yields
- 📦 Ideal for bifacial and large area PV modules
- 📦 Quick setup and commissioning with Solplanet apps
- 📦 Compact wall mount design
- 📦 Wide MPP voltage range 150V-1000V
- 📦 Quick & easy-to-install with basic tools

	MODEL	ASW 3K-LT-G2 Pro	ASW 5K-LT-G2 Pro	ASW 8K-LT-G2 Pro	ASW 10K-LT-G2 Pro	ASW 8K-LT-G2	ASW 10K-LT-G2	
Input (DC)	Max. PV array power	4500 Wp STC	7500 Wp STC	12000 Wp STC	15000 Wp STC	12000 Wp STC	15000 Wp STC	
	Max. input voltage	1100 V						
	MPP voltage range / rated input voltage	150 V to 1000 V / 630 V						
	Min. input voltage	125 V						
	Initial. feed in voltage	180 V				150 V		
	Max. operating input current	16 A / 16 A		20A / 16 A		26 A / 13 A		
	Max. short circuit current	25 A / 25 A		30 A / 25 A		40 A / 20 A		
	No. of independent MPPT inputs / strings per MPPT input	2 / A : 1 ; B : 1						
Output (AC)	Rated active power	3000 W	5000 W	8000 W	10000 W	8000 W	10000 W	
	Rated apparent power	3000 VA	5000 VA	8000 VA	10000 VA	8000 VA	10000 VA	
	Max. apparent power	3300 VA	5500 VA	8800 VA	11000 VA	8000 VA	10000 VA	
	AC nominal voltage	220 V / 380 V, 230 V / 400 V, 240 V / 415 V						
	AC voltage range	160 V to 300 V						
	AC grid frequency / range	50 Hz / 45 Hz to 55 Hz, 60 Hz / 55 Hz to 65 Hz						
	Max. output current	4.8A	8.0 A	12.8 A	16 A	12.8 A	16 A	
	Adjustable power factor range	0.8 leading to 0.8 lagging						
	Feed-in phases / connection type	3 / 3-N-PE						
	Harmonic distortion (THD) at rated output	< 3%						
Efficiency & Protection	Max. efficiency / European efficiency	98.3 % / 97.9 %		98.6% / 98.2 %				
	DC switch	●						
	Ground fault monitoring / grid monitoring	● / ●						
	DC reverse polarity protection / AC short circuit protection	● / ●						
	All-pole-sensitive residual-current monitoring unit	●						
	Surge protection	● / Type II						
	Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I / AC : III ; DC : II						
	General data	Dimensions (W / H / D)			503 / 435 / 183 mm			
		Weight	< 15 kg		17.3 kg			
		Operating temperature range	-25°C~+60°C					
Self-consumption (at night)		< 1 W						
Topology		Non-isolated						
Cooling concept		Natural Convection						
Degree of protection (according to IEC 60529)		IP66						
Climatic category (according to IEC 60721-3-4)		4K4H						
Max. permissible value for relative humidity (non-condensing)		100 %						
Max. operating altitude		3000 m						
Features	DC connection	Plug-in connector						
	AC connection	Plug-in connector						
	Mounting type	Wall-mount bracket						
	LED indicators (Status / Fault / Communication)	●						
	Communication interfac ^{1&2}	Wi-Fi / 4G / RS485 (Optional)						
	Country of manufacture	China						
Certificates and approvals (more available on request)	CE, EN50549, G98/99, VDE-AR-N4105, AS/NZS 4777, C10/C11, VFR 2014&UTE C15, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, NB/T 32004					CE, EN50549, IEC62109, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000, AS/NZS4777, C10/C11		

● Standard features / – not available

Hybrid Inverters

Solplanet Single Phase Hybrid Inverters



ASW H-S2 Series



Easy-to-install



Reliable



User-friendly

Features:

- UPS capability - power during blackouts
- Easy to connect - battery and smart meter interfaces
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design
- Quick & easy-to-install with basic tools

	MODEL	ASW3000H-S2	ASW5000H-S2
General Data	Power factor at rated power / adjustable displacement	≥0.99 / 0.8 leading to 0.8 lagging	
	Dimensions (W / H / D)	483 / 455 / 193.5 mm	
	Device weight	25.1kg	
	Operating temperature range	-25 °C~+60 °C	
	Noise emissions (typical)	30 dB(A)	
	Standby consumption	< 10 W	
	Cooling concept	Natural convection	
	Degree of protection (as per IEC 60529)	IP66	
	Climatic category (according to IEC 60721-3-4)	4K4H	
	Max. permissible value for relative humidity (non-condensing)	100%	
Features	Max. operating altitude	4000m (>3000m power derating)	
	User interface	LED & App	
	Communication with BMS	RS485 / CAN	
	Communication with meter	RS485	
	Communication with portal	WIFI stick	
	Integrated power control / Zero export control	● / ●	

	MODEL	ASW3000H-S2	ASW5000H-S2
PV Input	Max. PV array power	5500 W _p STC	7500 W _p STC
	Max. input voltage	550 V	
	MPP voltage range / rated input voltage	40 V to 530 V / 380 V	
	No. of independent MPPT trackers / strings per MPPT input	2 / 1	
	Max. input current per MPP tracker	16 A	
	Max. short-circuit current per MPP tracker	20 A	
Battery Input	Nominal battery voltage	48 V/51.2V	
	Battery voltage range	40 V to 60 V	
	Max. charging / discharging power	5000 W / 5000 W	
	Max. charging current / Max. discharging current	100 A / 100A	
	Battery type	LiFePO4	
	Compatible Battery	Aiswei Ai-LB series*3	
AC Output	AC voltage range / Nominal AC voltage	180 V to 280 V / 230 V	
	Rated AC grid frequency	50 Hz / 60 Hz	
	Rated apparent power	3000 VA	5000 VA*1
	Max. apparent power	3000 VA	5000 VA*1
	Rated grid output Current (@230V)	13.1 A	21.7 A*2
	Max. grid output current	13.6 A	22.7 A*2
AC Input	Rated grid voltage	a.c. 230V	
	Rated grid frequency	50Hz / 60Hz	
	Rated apparent power	6000 VA	
	Max. input apparent power from grid	6000 VA	
EPS Output	Max. input current from grid	a.c. 27.3 A	
	Nominal output voltage	230 V	
	Nominal output frequency	50 Hz / 60 Hz	
	Rated apparent power	5000 VA	
	Max. output apparent power	5000 VA	
	Peak output apparent power	7500 VA, 10s	
	Rated Current (@230V)	21.7A	
	Max. output current	21.7A	
	Max. switch time	≤ 10 ms	
	Output THDi (@ Linear load)	<3%	
Efficiency	MPPT efficiency	99.90%	
	Euro efficiency / Max. efficiency	97% / 97.6%	
	Max. battery to load efficiency	94.70%	
Safety Protection	DC-side disconnection device	●	
	PV string- / Battery input reverse polarity protection	● / ●	
	All-pole sensitive residual current monitoring unit	●	
	Anti-islanding protection	●	
	Ground fault protection	●	
	AC output over current / short circuit current protection	● / ●	
	AC over voltage protection	●	
	Protection class (as per IEC 62109-1) / overvoltage category (as per IEC 62109-1)	I / AC: III; DC: II	

● Standard features / ○ optional features / – not available

*1 For VDE-AR-N4105, S_{max}=S_n=4600VA, P_n=4600W

*2 For AS/NZS4777.2, I_{ac max}=21.7

*3 Including but not limited to the listed models, please check the website@solplanet for more compatible models

Solplanet Three Phase Hybrid Inverters



ASW H-T1 Series



Easy-to-install



Reliable



User-friendly

Features:

- UPS capability - power during blackouts
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design
- Support unbalanced output

	MODEL	ASW08kH-T1	ASW10kH-T1
General Data	Power factor at rated power / adjustable displacement	≥0.99 / 0.8 leading to 0.8 lagging	
	Dimensions (W / H / D)	530 / 200 / 560 mm	
	Device weight	30kg	31kg
	Operating temperature range	-25 °C~+60 °C	
	Noise emissions (typical)	< 35 dB(A)	
	Standby consumption	< 3 W	
	Cooling concept	Natural convection	
	Ingress protection rating (as per IEC60529)	IP65	
	Climatic category (according to IEC60721-3-4)	4K4H	
	Max. permissible value for relative humidity (non-condensing)	0~95%	
Certif- icates	Max. operating altitude	4000m (>2000m power derating)	
	Grid	EN 50549-1, RfG 3	
	Saftey	EN 62109-1/2	
Features	EMC	IEC61000-6-1/-2/-3/-4, IEC61000-3-11/12	
	User interface	LED & App	
	Communication with BMS	RS485 / CAN	
	Communication with meter	RS485	
	Communication with portal	WIFI stick	
	Integrated power control / Zero export control	● / ●	

	MODEL	ASW08kH-T1	ASW10kH-T1
PV Input	Max. PV array power	12 kW _p STC	15 kW _p STC
	Max. input voltage	1000 V	
	MPP voltage range	180 V ~ 850 V	
	No. of independent MPPT trackers / strings per MPPT input	2 / (1/1)	
	Max. input current per MPP tracker	13 A	
Battery Input	Max. short-circuit current per MPP tracker	25A	
	Battery type	LiFePO4	
	Battery voltage range	150 V to 600 V	
	Max. charging/ discharging power	8.8KW/8.8KW	11kW/11kW
AC Output	Max. charging current / discharging current	50 A / 50 A	
	Rated. charging current / discharging current	40 A / 40 A	
	Nominal AC voltage	3W+N+PE, 220 V / 380 V; 230 V / 400 V; 240 V / 415 V	
	AC voltage range	360V~440V	
	Rated AC grid frequency	50 Hz / 60 Hz	
	Rated apparent power	8 kVA	10 kVA
	Max. apparent power	8.8 kVA	11 kVA
	Rated grid output Current (@400V)	11.6 A	14.5 A
	Max. grid output current	12.7A	15.9A
	AC Input	Rated grid voltage	3W+N+PE, 220 / 380 V; 230 / 400 V; 240 / 415 V
Rated grid frequency		50Hz / 60Hz	
Rated apparent power		16 kW	20 kW
Max. input apparent power from grid		17.6 kVA	22 kVA
Max. input current from grid		25.5 A	31.8 A
EPS Output	Nominal output voltage	3W+N+PE, 220 / 380 V; 230 / 400 V; 240 / 415 V	
	Nominal output frequency	50 Hz / 60 Hz	
	Rated apparent power	8 kVA	10 kVA
	Max. output apparent power	8 kVA	10 kVA
	Peak output apparent power	8.8 kVA	11 kVA
	Rated Current (@400V)	11.6 A	14.5 A
	Max. output current	12.7 A	15.9 A
Efficiency	Max. switch time	≤20 ms	
	Output THDi (@ Linear load)	<2%	
	MPPT efficiency	≥99.5%	
	Max. efficiency / Euro efficiency	97.90% / 97.2%	98.20% / 97.50%
	Max. battery to load efficiency	97.50%	
Safety Protection	DC-side disconnection device	●	
	PV string- / Battery input reverse polarity protection	● / ●	
	All-pole sensitive residual current monitoring unit	●	
	Anti-islanding protection	●	
	Ground fault protection	●	
	AC output over current protection	●	
	AC output short circuit current protection	●	
	AC over voltage protection	●	
	Protection class (as per IEC 62109-1)	I	
	overvoltage category (as per IEC 62109-1)	AC: III; DC: II	

● Standard features / ○ optional features / – not available

Energy Storage Inverters

Solis Energy Storage Inverters



RAI-3K-48ES-5G

Protection:

Inverters possess battery reverse protection, battery over and under voltage protection, short circuit protection, output over current protection, temperature protection.

Features:

- ❖ Uninterrupted power supply, 20ms reaction
- ❖ Compatible with both lead-acid battery and li-ion battery
- ❖ Compatible with any existing grid-tied PV system, option to upgrade
- ❖ Off-grid backup function
- ❖ EPS function
- ❖ Intelligent EMS function
- ❖ Intelligent debugging APP which support one-click inverter configuration
- ❖ Various work mode for different application scenario
- ❖ Natural cooling without external fan

	MODEL	RAI-3K-48ES-5G
Output AC (Grid side)	Rated output power	3 kW
	Max. apparent output power	3.3 kVA
	Operation phase	1/N/PE
	Rated grid voltage	220 V / 230 V
	Grid voltage range	184-264 V
	Rated grid frequency	50 Hz / 60 Hz
	Rated grid output current	13.6 A / 13 A
	Max. output current	20 A
	Power Factor	>0.99 (0.8 leading - 0.8 lagging)
Battery	THDi	<3%
	Battery type	Li-ion / Lead-acid
	Battery voltage range	40-60 V
	Battery capacity	50-2000 Ah
	Max. charge / discharge power	3 kW
	Max. charge / discharge current	60 A
Output AC (Back-up)	Communication	CAN
	Rated output power	3kW (Requires battery voltage higher than 55 V)
	Max. apparent output power	4.5 kVA
	Back-up switch time	<20 ms
	Rated output voltage	1/N/PE, 220 V / 230 V
	Rated frequency	50 Hz / 60 Hz
	Rated output current	13.6 A / 13 A
Input AC (Grid side)	THDv (@linear load)	<3%
	Input voltage range	184-264 V
	Max. input current	32 A
Efficiency	Frequency range	45-55 Hz / 55-65 Hz
	Max. battery charge efficiency	94.0%
General Data	Max. battery discharge efficiency	94.5%
	Dimensions (W*H*D)	405*510*150 mm
	Weight	12.1 kg
	Topology	High frequency isolation
	Operating ambient temperature range	-25 ~ +60°C
	Ingress protection	IP65
	Cooling concept	Natural convection
	Max. operation altitude	2000 m
	Grid connection standard	G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, MEA, PEA
	Safety/EMC standard	IEC 62477, EN 61000-6-2/-3
	Features	DC connection
AC connection		Screw clamp terminal (max. 6 mm ²)
Display		LCD
Communication		RS485, CAN, Optional: Wi-Fi, GPRS

Solis Energy Storage Inverters



S5-EH1P(3-6)K-L

Protection:

Inverters possess DC reverse-polarity protection, short circuit protection, output over current protection, ground fault monitoring.

Features:

- ❏ Max. string input current 15A
- ❏ Uninterrupted power supply, 20ms reaction
- ❏ 5kW backup power to support more important loads
- ❏ With shifting and peak shaving capabilities friendly to grid
- ❏ Multiple working modes to make maximize self-consumption, increase benefit
- ❏ Higher charge-discharge efficiency, improving the economic benefits
- ❏ Compatible with lithium & lead-acid batteries, increased more choice in different markets
- ❏ Fanless design, long lifespan
- ❏ Intelligent EMS function, improving battery's reliability
- ❏ With high-frequency isolation technology, making system safer and long lifespan

	MODEL	S5-EH1P3K-L	S5-EH1P5K-L
Input DC (PV side)	Recommended max. PV power	4.8 kW	8 kW
	Max. input voltage		600 V
	Rated voltage		330 V
	Start-up voltage		120 V
	MPPT voltage range		90-520 V
	Max. input current		15 A / 15 A
	Max. short circuit current		22.5 A / 22.5 A
	MPPT number		2
	Max. input strings number		2
Battery	Battery type		Li-ion / Lead-acid
	Battery voltage range		42 - 58 V
	Battery capacity		50 - 2000 Ah
	Max. charge / discharge power	3 kW	5 kW
	Max. charge / discharge current	62.5 A	100 A
Output AC (Back-up)	Communication		CAN
	Rated output power	3 kW	5 kW
	Max. apparent output power	4.5 kVA, 10SEC	7 kVA, 10SEC
	Back-up switch time		<20 ms
	Rated output voltage		1/N/PE, 220 V / 230 V
	Rated frequency		50 Hz / 60 Hz
	Rated output current	14 A / 13.5 A	23 A / 22 A
Input AC (Grid side)	THDv (@linear load)		<2%
	Input voltage range		187-265 V
	Max. input current	20.5 A / 20 A	34.5 A / 33 A
Output AC (Grid side)	Frequency range		45-55 Hz / 55-65 Hz
	Rated output power	3 kW	5 kW
	Max. apparent output power	3.3 kVA	5.5 kVA
	Operation phase		1/N/PE
	Rated grid voltage		220 V / 230 V
	Rated grid frequency		50 Hz / 60 Hz
	Rated grid output current	13.7 A / 13.1 A	22.8 A / 21.7 A
	Max. output current	15 A	25 A
	Power Factor		>0.99 (0.8 leading - 0.8 lagging)
	THDi		<2%
Efficiency	Max. efficiency		>97.1%
	EU efficiency		>96.5%
Protection	Surge protection		DC Type II / AC Type II
	Protection class/Over voltage category		I/I
General Data	Dimensions (W*H*D)		333*505*249 mm
	Weight		18.3 kg
	Topology		High frequency isolation (for battery)
	Operating ambient temperature range		-25 ~ +60°C
	Ingress protection		IP65
	Cooling concept		Natural convection
	Max. operation altitude		3000 m
	Grid connection standard		G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, VDE 0126/UTE C 15/VFR:2019, RD 1699/RD 244/UNE 206006/ UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA
	Safety/EMC standard		IEC/EN 62109-1/-2, EN 61000-6-2/-3
	Features	DC connection	
AC connection			Quick connection plug
Display			7.0"LCD color screen display
Communication			RS485, Optional: Wi-Fi, GPRS

Solis Energy Storage Inverters



S5-EO1P(4-5)K-48

Features:

- ❏ 80 Amp AC charger and 100 Amp solar charger
- ❏ Maximum PV input voltage up to 500VDC
- ❏ Built-in MPPT solar charge controller
- ❏ Configurable AC/solar input priority based on applications
- ❏ Parallel operation up to 10 units (50kW)
- ❏ Support 3 phase unbalanced parallel operation
- ❏ Intelligent EMS function
- ❏ Compatible with all top-tier brands of lithium batteries and lead-acid batteries
- ❏ Functional with or without a battery
- ❏ One-click fast charging mode
- ❏ Battery equalization for increased battery performance and lifespan
- ❏ Manual wakeup the overdischarged battery to extend battery lifespan
- ❏ Built-in bluetooth communication
- ❏ Remote control & firmware upgrade

	MODEL	S5-EO1P5K-48	S5-EO1P5K-48-P	
Battery	Rated battery voltage	48 V		
	Battery type	Li-ion / Lead-acid		
	Max. charge / discharge current	100 A		
	Communication	CAN/RS485		
Inverter Output	Rated output power	5 kVA / 5 kW		
	Rated output voltage	230 V ± 1%		
	Rated frequency	50 Hz / 60 Hz ± 0.1%		
	Surge capacity	10 kVA		
	Output voltage waveform	Pure sine wave		
	Transfer time	10 ms typical, 20 ms Max		
	THDv (@linear load)	<3%		
	Peak efficiency (PV-AC)	96.7%		
	Solar Charger	Solar charger type	MPPT	
		Recommended max. PV power	5.5 kW	
Max. input voltage		500 V		
MPPT voltage range		90-480 V		
MPPT number/Max. input strings number		1/2		
AC Charger	Max. solar charge current	100 A		
	Rated input voltage	230 V		
	Selectable voltage range	90-280 V		
	AC frequency range	50 Hz / 60 Hz (Auto sensing)		
General Data	Max. AC charge current	80 A		
	Dimensions (W*H*D)	335*450*160 mm		
	Weight	14 kg		
	Relative humidity	5% to 95% (Non-condensing)		
	Operating ambient temperature range	-10 ~ +60°C		
	Storage temperature range	-25 ~ +60°C		
	Ingress protection	IP21		
	Max. operation altitude	2000 m		
	Safety standard	IEC 62109, IEC 61000		
	Features	DC connection	Terminal connectors	
AC connection		Terminal connectors		
Display		LCD		
Communication		CAN, BMS, RS485, Dry-contact, Bluetooth, Optional: Wi-Fi		
Protection	Output over voltage protection	Yes		
	Output over current protection	Yes		
	Short circuit protection	Yes		
	Surge protection	Yes		
	Temperature protection	Yes		
	Integrated AFCI (DC arc-fault circuit protection)	Yes		