

Solis Energy Storage Inverters

» S5-EO1P(4-5)K-48



360 degree

Flexible Communications

- ▶ Integrated LCD display
- ▶ Built-in bluetooth communication
- ▶ Remote control & firmware upgrade

Adaptive

- ▶ Configurable AC/solar input priority based on applications
- ▶ Parallel operation up to 10 units (50kW)
- ▶ Support 3 phase unbalanced parallel operation
- ▶ Intelligent EMS function

High Performance

- ▶ 80 Amp AC charger and 100 Amp solar charger
- ▶ Maximum PV input voltage up to 500VDC
- ▶ Built-in MPPT solar charge controller

Battery Friendly

- ▶ Compatible with all top-tier brands of lithium batteries and lead-acid batteries
- ▶ Battery equalization for increased battery performance and lifespan
- ▶ Functional with or without a battery
- ▶ One-click fast charging mode
- ▶ Manual wakeup the overdischarged battery to extend battery lifespan

Model: S5-EO1P4K-48 S5-EO1P4K-48-P S5-EO1P5K-48 S5-EO1P5K-48-P

Datasheet

Model Name	S5-EO1P4K-48	S5-EO1P4K-48-P	S5-EO1P5K-48	S5-EO1P5K-48-P
Parallel capability	NO	Yes, 10 units	NO	Yes, 10 units

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	4 kVA / 4 kW	5 kVA / 5 kW
Rated output voltage	230 V $\pm$ 1%	
Rated frequency	50 Hz / 60 Hz $\pm$ 0.1%	
Surge capacity	8 kVA	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 kW	5.5 kW
Max. input voltage	500 V	
MPPT voltage range	90-480 V	
MPPT number/Max. input strings number	1/2	
Max. input current per MPPT	26A ⁽¹⁾	
Max. solar charge current	100 A	

AC Charger

Rated input voltage	230 V	
Selectable voltage range	90-280 V	
AC frequency range	50 Hz / 60 Hz (Auto sensing)	
Max. AC charge current	60 A	80 A

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

General Data

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

(1) Max. input current per string will be 26A for one string's design and 13A for two strings' design;
Max. input short current per string will be 32A for one string's design and 16A for two strings' design.