

Solis S6 Hybrid Inverter HV Battery Compatibility for North America

S6-EH1P(3.8-11.4)K-H-US

Single-Phase High-Voltage Hybrid Residential Energy Storage Inverter



Inverter Models:

- S6-EH1P3.8K-H-US
- S6-EH1P5K-H-US
- S6-EH1P7.6K-H-US
- S6-EH1P10K-H-US
- S6-EH1P11.4K-H-US

- Up to 50A of battery charge and discharge current
- Backup output power up to 11.4kW (47.5A) continuous¹
- Parallel multiple inverters together to increase output power
- Dry contact for generator auto-start backup power²
- UL 1741 SB certified and California Energy Commission listed
- Capable of providing whole-home backup with the SolisHub MID
- Multiple battery stacks can be connected to a single inverter³
- UL 9540 certified with several battery models, listed below⁴
- Communicates with the battery using CAN or RS485⁵



UL 9540 Certified Compatible High Voltage Batteries

Battery Brand	Battery Model	Single Pack Storage Capacity	Maximum Packs per Inverter in Parallel	Maximum Storage Capacity per Inverter
Pylontech	Force H1	10.65 to 24.86 kWh	6	149 kWh
Soluna	15K Pack HV	6 to 15 kWh	10	150 kWh
Fortress Power	Ultra-Thin Arrow HV	14.4 to 28.8 kWh	2	57.6 kWh
LG Energy Solutions	RESU Prime 10H	10 kWh	2	20 kWh
	RESU Prime 16H	16 kWh	2	32 kWh

Key Notes

1. A battery is required in order to have backup power, but the inverter can operate as a grid-tie inverter with PV only.
2. The generator must have dry contact inputs to be compatible. When the generator is active, the PV will be disabled.
3. Please consult with the battery supplier for additional details on combiner box options and paralleling multiple batteries to a single inverter.
4. Solis is in the process of matching with other battery suppliers. Please contact ussales@solisinverters.com for more details.
5. Interoperability matching must first be completed by Solis and the battery supplier before the inverter and battery can be compatible.
6. The batteries and battery components are all sold separately. Please contact your local Solis distributor for assistance with procurement.
7. Installing batteries that are not on this list will void the inverter warranty. Solis is not responsible for the quality or the warranty of the battery.

Solis S6 Hybrid Inverter Rapid Shutdown Compatibility for North America

S6-EH1P(3.8-11.4)K-H-US

Single-Phase High-Voltage Hybrid Residential Energy Storage Inverter



This inverter can come with various integrated signal transmitters. The transmitter sends a signal to the module-level rapid shutdown (MLRSD) receivers located in the PV array.

A switch on the inverter disables the integrated transmitter when engaged, eliminating the heartbeat signal and initiating rapid shutdown of the PV array.

- Integrated SunSpec-certified RSD transmitter options allow for NEC 690.12 2020 compliance¹
- Inverter supports PV generation in backup/off-grid modes²
- An external RSD initiation switch can be connected³
- Optimization & module-level monitoring are optional features
- The inverter can be ordered with no signal transmitter as well⁴



PVRSS-Certified Compatible MLRSD Components

MLRSD Transmitter	MLRSD Receiver Model	Number of PV Module Inputs	Rapid Shutdown	Module-Level Monitoring	Optimization
APsmart	RSD-S-PLC	1	✓	✗	✗
	RSD-D	2	✓	✗	✗
Tigo Energy	TS4-A-F	1	✓	✗	✗
	TS4-A-2F	2	✓	✗	✗
	TS4-A-O	1	✓	✓	✓

Key Notes

1. Please contact ussales@solisinverters.com for the Ordering Guide, which provides instructions on how to order the inverter with the correct internal transmitter. **Note:** Transmitters and receivers installed must be of the same brand. Mixing components of different brands in the same system will void the inverter warranty.
2. A compatible battery must be connected to the inverter for PV to be able to generate power in backup and off-grid modes.
3. The inverter has ports for an external switch to be connected. These ports are in series with the switch on the inverter wire box. Please see the manual for more details.
4. The RSD signal transmitter comes with the inverter. The RSD receivers are all sold separately. Please contact your local distributor for assistance with procurement.
5. Installing components not on this list will void the inverter warranty. Solis is not responsible for the quality or the warranty of the rapid shutdown components.