



## Rapid Shutdown, Module-Level Optimization & Monitoring Compatibility List

Solis inverters can be ordered 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 compliance<sup>1</sup>
- An external rapid shutdown initiation switch can be connected<sup>2</sup>
- Module-level optimization & module-level monitoring are optional features
- The inverter can be ordered with no signal transmitter as well<sup>3</sup>



### PVRSS-Certified Compatible MLRSD Components

Solis Model -SKU Addition when ordering	APSmart Receiver Model -APST	Tigo Energy Receiver Model -RSS	Tigo Energy Receiver Model -CCA*	NEP Receiver Model <sup>4</sup> -NEPT
<b>S6-EH1P(3.8-11.4)K-H-US (HV Hybrid)</b>	RSD-S-PLC-B; RSD-S-PLC-A; RSD-D; RSD-D-15; RSD-D-20	TS4-A-F; TS4-A-2F	TS4-A-O	PVG-1, PVG-2, PVG-3 Please note Transmitter is not integrated
<b>S6-EH2P(9.6-16.0)K-L-US (48V Hybrid)</b>	RSD-D-20; RSD-S-PLC-A	TS4-A-F; TS4-A-2F	TS4-A-O & CCA are compatible but not integrated	X
<b>Solis-1P(3.6-10)K-4G-US</b>	RSD-S-PLC-B; RSD-S-PLC-A; RSD-D; RSD-D-15; RSD-D-20	TS4-A-F; TS4-A-2F	TS4-A-O	PVG-1, PVG-2, PVG-3 Please note Transmitter is not integrated
<b>S6-GC(25-60)K-US; S6-GC30K-LV-US</b>	RSD-S-PLC-B; RSD-S-PLC-A; RSD-D; RSD-D-15; RSD-D-20	TS4-A-F; TS4-A-2F	TS4-A-O Transmitter is not integrated	PVG-1, PVG-2, PVG-3 Please note Transmitter is integrated
<b>S5-GC(75-125)K-US; S5-GC60K-LV-US</b>	RSD-S-PLC-B; RSD-S-PLC-A; RSD-D; RSD-D-15; RSD-D-20	TS4-A-F; TS4-A-2F	TS4-A-O Transmitter is not integrated	PVG-1, PVG-2, PVG-3 Please note Transmitter is integrated
<b>S6-EH3P(30-60)K-NV-YD-H-US</b>	RSD-D-20; RSD-S-PLC-A	TS4-A-F; TS4-A-2F	TS4-A-O & CCA not compatible or integrated	X

\*Please note the Tigo CCA transmitter comes integrated into the inverter but the Tigo TAP must be purchased separately

Transmitters and receivers installed must be of the same brand and cannot be mix and matched. Receivers should be purchased separately. Installing components not on this list can potentially void the inverter warranty. Solis is not responsible for the quality of RSD component's warranties.

1. Please contact [ussales@solisinverters.com](mailto:ussales@solisinverters.com) for datasheets and exact ordering guides on how to properly order transmitter integrated products.
2. 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.
3. In ordering the inverter one must specify a particular suffix on the end of the inverter model number to get an inverter that has the factory-integrated transmitters. RSD receivers are sold separately. Please work with your distributor for procurement.
4. NEP standard receivers are 15A (20A models are also available upon request). For commercial inverters, the NEP transmitter is available factory-integrated however the FOMware Datalogger is also required for module-level monitoring.



## Rapid Shutdown, Module-Level Optimization & Monitoring Capability Chart

MLRSD Brand	Model Number	Number of PV Module Inputs	Rapid Shutdown	Module-Level Monitoring	Module-Level Optimization
APSmart (-APST)	RSD-S-PLC-B	1	✓	X	X
	RSD-S-PLC-A	1	✓	X	X
	RSD-D	2	✓	X	X
	RSD-D-15	2	✓	X	X
	RSD-D-20	2	✓	X	X
Tigo Energy (-RSS)	TS4-A-F	1	✓	X	X
	TS4-A-2F	2	✓	X	X
Tigo Energy (-CCA)	TS4-A-O*	1	✓	✓	✓
NEP (-NEPT) External transmitter sold separately unless with our commercial products.	PVG-1	1	✓	✓	X
	PVG-2	2	✓	✓	X
	PVG-3	3	✓	✓	X

## UL3741 Rapid Shutdown Listings for Products

UL 3741 enables residential and commercial installations to reduce components using a string isolation device (for residential) or installing inverters at the array-level in the case of commercial installations. Reducing components reduces redundancy and complexity, speeding the installation by making it simpler for the installer to execute a compliant system. Solis has partnered with many racking companies to list our solution to be compliant and make it easier to keep costs and complexity to a minimum.



### Residential

Solis Models	Racking Manufacturer	Racking Product	String Isolation Device	Certificate/Addendum
S6-EH1P(3.8-11.4)K-H-US-APST Solis-1P(3.6-10)K-4G-US-APST	Ironridge	XR Flush Mount System; AIRE Flush Mount System	Midnite Solar MNSSR-600S	Visit Manufacturer's Website for Addendum; Solis also has a helpful implementation guide <a href="#">here</a> .
	Ecofasten	ClickFit System; Rockit System		
	Pegasus	SKPRail System		
	Unirac	SOLARMOUNT NXT UMPUNT SM NXT Tilt		
Solis-1P(3.6-10)K-4G-US-APST	Chiko Solar	CK-AR System		

### Commercial

Solis Models	Racking Manufacturer	Racking Product	String Isolation Device	Certificate/Addendum
S6-GC(25-60)K-US S6-GC30K-LV-US S5-GC(75-125)K-US S5-GC60K-LV-US	Ironridge	BX System	Not required, inverter should be installed at the array level.	<a href="#">Addendum Link</a> ; <a href="#">Tech Bulletin</a>
	TerraGen	TGR, TGT, TGP systems		<a href="#">Addendum Link</a> ; <a href="#">Certificate Link</a>
	Schletter	FixGrid Pro		<a href="#">Addendum Link</a>
	Panelclaw	clawFR/clawFR Plus		<a href="#">Addendum Link</a> ; <a href="#">Certificate Link</a>
	Aerocompact	CompactFlat		<a href="#">Addendum Link</a> ; <a href="#">Certificate Link</a>
	Unirac (25-60K)	RM5		<a href="#">Addendum Link</a>
	Sollega	FastRack		<a href="#">Addendum Link</a> ; <a href="#">Certificate Link</a>
	Sunmodo	SunModo PV Rack Mounting System; NanoRack PV Mounting System		<a href="#">Addendum Link</a>
	KB Racking	AeroGrid; EkonoRack 2.0		<a href="#">Website Link</a>



## Battery Compatibility List for S6-EH1P(3.8-11.4)K-H-US

Solis inverters operate on an open ecosystem, meaning we want to ensure consumers have choices when it comes to partnerships today and as they continue to scale their systems down the road. We are fortunate to partner with many industry leaders to ensure compatibility and functionality for seamless storage systems.

The below table applies to S6-EH1P(3.8-11.4)K-H-US residential products.



Battery Brand	Model	Min. Capacity	Max. Capacity	Max. Parallel Strings	Interoperability Test	UL9540 Ed. 2 Certification
Fortress Power	Avalon HV	14.7kWh (3 modules)	29.4kWh ( 6 modules)	< 2	Complete	Complete
BYD	Premium HVL	12 kWh (3 modules)	32 kWh (8 modules)	≤ 2	Complete	Complete
Dyness	Dyness Tower	7.10 kWh (1 rack)	42.6 kWh (6 modules)	≤ 4	Complete	Complete
Soluna	15K Pack HV	6 kWh (1 rack)	6kWh (1 rack)	≤10	Complete	Complete
		10kWh (1 rack)	10kWh (1 rack)			
		15 kWh (1 rack)	15kWh (1 rack)			
LG Energy Solutions Gen 3	RESU Prime 10H	10 kWh (1 rack)	10kWh (1 rack)	≤ 2	Complete	Complete
	RESU Prime 16H	16 kWh (1 rack)	16 kWh (1 rack)	≤ 2	Complete	Complete
LG Energy Solutions Gen 4	Enblock S10	10.6 kWh (1 rack)	10.6 kWh (1 rack)	≤ 2	Complete	Complete
	Enblock S14	14.1 kWh (1 rack)	14.1 kWh (1 rack)	≤ 2	Complete	Complete
	Enblock S17	17.7 kWh (1 rack)	17.7 kWh (1 rack)	≤ 2	Complete	Complete
Pylontech	Force H1	10.65 kWh (3 modules)	245 kWh (48 modules)	≤ 6	Complete	Complete
	Force H3	10.24 kWh (2 modules)	123 kWh (4 modules)	≤ 8	Complete	Ed. 3 DC ESS
Pytes	HV48100	26 kWh (5 modules)	35.84 kWh (13 modules)	≤ 3	Complete	Complete
EndurEnergy	ESP-5K-HL	15 kWh (3 modules)	35 kWh (16 modules)	≤ 8	Complete	Not Being Done

Battery capacity installed must be of the same brand and cannot be mix and matched. The generator must have dry contact inputs to be compatible. When the generator is active, the PV will be disabled. Please consult with the battery supplier for additional details on combiner box options and paralleling multiple batteries to a single inverter. Solis will not be responsible to wrong battery design configurations. Interoperability matching must first be completed by Solis and the battery supplier before the inverter and battery can be compatible. Solis is actively working on interoperability, please contact [ussales@solisinverters.com](mailto:ussales@solisinverters.com) for more details. The batteries and battery components are all sold separately. Please contact your local Solis distributor for assistance with procurement. 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.

## Battery Compatibility List for S6-EH2P(9.6-16)K03-SV-YD-L-US (Residential Low Voltage Hybrid Inverter)



Solis inverters operate on an open ecosystem, meaning we want to ensure consumers have choices when it comes to partnerships today and as they continue to scale their systems down the road. We are fortunate to partner with many industry leaders to ensure compatibility and functionality for seamless storage systems.

The below table applies to S6-EH2P(9.6-16)K03-SV-YD-L-US residential hybrid inverter models only.

The minimum and maximum capacities as well as the maximum number of units in parallel are per system.

Completion dates shown in red in the table below are subject to change.

Battery Brand	Model	Min. Capacity	Max. Capacity	Max. Parallel	Interoperability Test	UL9540 Listing*
Briggs & Stratton Energy Solutions	SimpliPHI 6.6	6.6 kWh	119.7 kWh	18 units (6 stacks of 3)	Complete	DC ESS Ed. 3 Complete
Discover Energy Systems	AES Rackmount 48-48-5120	5.12 kWh	122.88 kWh	24 units	Complete	DC ESS Ed. 3 Complete
	AES Rackmount 48-48-5120-H	5.12 kWh	122.88 kWh	24 units	Complete	DC ESS Ed. 3 Complete
	HELIOS ESS 16.1 kWh	16 kWh	576 kWh	36 units	Complete	DC ESS Ed. 3 Complete
HomeGrid	HomeGrid LV Stack'd Series	9.6 kWh (2 modules)	576 kWh	120 units (15 stacks of 8)	June 2026	DC ESS Ed. 3 June 2026
Pylontech	Pelio	5.12 kWh	102.4 kWh (5 stacks of 4)	20 units (5 stacks of 4)	May 2026	DC ESS Ed. 3 Complete
	US5000	4.8 kWh	460.8 kWh	96 units (w/ Hub)	May 2026	DC ESS Ed. 3 Complete
Pytes	V5°	5.12 kWh	81.92 kWh	16 units	Complete	DC ESS Ed. 3 Complete
	V12	11.78 kWh	188.48 kWh	16 units	Complete	DC ESS Ed. 3 Complete
	V16	16 kWh	256 kWh	16 units	Complete	DC ESS Ed. 3 June 2026
Renon Power	Xcellent Plus	16 kWh	496 kWh	31 units	Complete	DC ESS Ed. 3 Complete
	EBrick	5.12 kWh	158.72 kWh	31 units	Complete	DC ESS Ed. 3 TBD
Soluna	EOS 5K Pack	5 kWh	60 kWh	12 units	Complete	Not Being Done
	BES 5K Pack	5 kWh	80 kWh	16 units	Complete	Not Being Done
	10K Pack LV	10 kWh	1,200 kWh	120 units	Complete	DC ESS Ed. 3 Complete
	Venus 16K Pack LV	16 kWh	480 kWh	30 units	Complete	DC ESS Ed. 3 Complete
EndurEnergy	Vault16	5.12 kWh	327.68 kWh	64 units (8 strings of 8)	TBD	DC ESS Ed. 3 TBD
Surrette Rolls	S-Series	5.12 kWh	81.92 kWh	16 units	May 2026	DC ESS Ed. 3 Complete

\*The 3<sup>rd</sup> Edition of UL9540 updated the listing standard and, as long as the accompanying inverter is UL1741, requires no new testing or certification. This is a new edition and may not be accepted in different regions. It is best to check with the AHJ in which you are installing to ensure the accompanying listing is valid and accepted. Edition 2 is the standard system-level certification. Battery capacity installed must be of the same brand and cannot be mix and matched.



## Battery Compatibility List for S6-EH3P(30-60)K-NV-YD-H-US (Commercial High Voltage Hybrid)

Solis inverters operate on an open ecosystem, meaning we want to ensure consumers have choices when it comes to partnerships today and as they continue to scale their systems down the road. We are fortunate to partner with many industry leaders to ensure compatibility and functionality for seamless storage systems.

The below table applies to S6-EH3P(30-60)K-NV-YD-H-US commercial hybrid inverter models only.

Min. Capacity, Max. Capacity, and Max. Per Inverter are all based on per inverter not system. Many inverters can be connected in parallel. However, the limits you see are based on the inverter's technical specifications not the battery.

Completion dates shown in red in the table below are subject to change.



Battery Brand	Model	Min. Capacity	Max. Capacity	Max. Per Inverter	Interoperability Test	UL 9540 Listing*
Discover Energy Solutions	AES 210HV	212 kWh	8.48 MWh	40 units	Complete	DC ESS Ed.3 Complete
Novele	EnergyBoard	15 kWh	130 kWh (2 stacks of 13)	26 units	Complete	DC ESS Ed. 3 Complete
Pylontech	A100-HY	104 kWh	1,040 kWh	10 units	May 2026	DC ESS Ed. 3 Complete
	A300-HY	313 kWh	3,130 kWh	10 units	May 2026	DC ESS Ed. 3 Complete
Renon Power	Ecube 60AP	60 kWh	720 kWh	12 units	Complete	DC ESS Ed. 3 Complete
Pytes	HV48100	25.6 kWh	143.36 kWh	28 units	Complete	DC ESS Ed. 3 Complete
	HV48100 SE	25.6 kWh	143.36 kWh	28 units	Complete	DC ESS Ed. 3 Complete
	HV48300 MAX	215 kWh	430 kWh	2 units	Complete	DC ESS Ed. 3 November 2026
Lithion	Gridbox 3 (GB3)	120 kWh	361 kWh	12 units	June 2026	DC ESS Ed. 3 June 2026
Soluna	10K Pack HV	10 kWh	200 kWh	20 units	Complete	DC ESS Ed. 3 May 2026
	15K Pack HV	15 kWh	300 kWh	20 units	Complete	DC ESS Ed. 3 May 2026
	Power Cell (PC)	90 kWh	960 kWh	12 units	Complete	DC ESS Ed. 3 May 2026
World4Solar	LumaPort	72 kWh	144 kWh	2 units	Complete	DC ESS Ed. 3 Complete

\*The 3<sup>rd</sup> Edition of UL9540 updated the listing standard and, as long as the accompanying inverter is UL1741, requires no new testing or certification. This is a new edition and may not be accepted in different regions. It is best to check with the AHJ in which you are installing to ensure the accompanying listing is valid and accepted. Edition 2 is the standard system-level certification. Battery capacity installed must be of the same brand and cannot be mix and matched.



## Virtual Power Plant (VPP) Programs

Solis works with organizations (known as aggregators) Flip and Derapi in order to enable commercial and residential customers to seamlessly integrate with active programs with their state or utility. Depending on the program, end users can incur savings and cash incentives for participating and advancing their solar ROI. See below a summary active VPP programs that are supported when using a Solis inverters. Please note, this is not an exhaustive list as VPPs continue to grow in the US and Puerto Rico.

State	Program	Program Details	Partner	Program Link	Solis Enrollment Link
California	Demand Side Grid Support (DSGS)	DSGS (Demand Side Grid Support) is a program operated by the California Energy Commission (CEC) that pays battery owners for discharging stored energy during grid emergencies. It helps stabilize the power grid while offering financial rewards. DSGS operates from May 1 - October 31.	Derapi	<a href="https://www.energy.ca.gov/programs-andtopics/programs/demand-sidegrid-support-program">https://www.energy.ca.gov/programs-andtopics/programs/demand-sidegrid-support-program</a>	<a href="https://solis-vpp.derapi.com/">https://solis-vpp.derapi.com/</a>
Puerto Rico	LUMA	“Customer Battery Energy Sharing” (CBES). The CBES is a next-generation pilot program designed to leverage customer battery storage systems to increase the supply of energy available to the electricity grid during peak demand periods, to improve day-today service reliability and minimize the impact of load shedding.	Flip	<a href="https://lumapr.com/battery-demand-response/?lang=en">https://lumapr.com/battery-demand-response/?lang=en</a>	<a href="https://solisvpp.com/">https://solisvpp.com/</a>
CT, MA, RI	Connected Solutions & CT Green Bank	Virtual power plant (VPP) programs in the Northeast (MA, RI, CT) that let homeowners with batteries (or smart devices) enroll so their utility can access their stored or flexible energy during peak demand—and participants earn incentives for helping the grid.	Flip	<a href="https://lumapr.com/battery-demand-response/?lang=en">https://lumapr.com/battery-demand-response/?lang=en</a>	<a href="https://solisvpp.com/">https://solisvpp.com/</a>



## Export Power Monitoring and Control

Export power control is continuing to be a requirement of some utilities in US and Canada. Solis hybrid inverters include energy meters and CTs in the box with the inverters. Export power control can be done without the need of any additional equipment. Grid-tied only inverters do require the purchase and installation of additional components as outlined below. Full home/building consumption monitoring is included as well.

Product	Accessories Included for Export Power Control	Optional Export Kit SKU	Included with the Export Kit	Purpose of the Export Kit
Solis-1P(3.6-10)K-4G-US	None Included	Single Inverter System: <b>AGF-AE-D/200(2PIN)</b>	Acrel AGF-AE-D/200 Energy Meter x2 Acrel Split-Core CT	To have export power control for only one grid-tied Solis inverter (240Vac)
		Multi-Inverter System: <b>EPM3-PRO+SP200+WIFI</b>	EPM3-5G-PRO Acrel AGF-AE-D/200 Energy Meter x2 Acrel Split-Core CT	To have export power control for multiple grid-tied Solis inverters (240Vac) This kit supports up to x5 inverters max.
S6-EH1P(3.8-11.4)K-H-US	CHINT DTSU666 Energy Meter x2 Split-Core CT (250A/50mA)	Flexible CT Kit: <b>CHINT DTSU666 (Rogowski Coil)</b>	CHINT DTSU666 Energy Meter x2 Rogowski Coils	In cases where split-core CTs will not fit and flexible CTs are required. This kit supports up to x3 inverters max.
S6-EH2P(9.6-16)K-SV-YD-L-US	x2 CHINT NCTK-24 Split-Core CT (250A/50mA)	Meter Kit: <b>CHINT DTSU666(CT-600A/40mA)</b>	CHINT DTSU666 Energy Meter x2 600A-Rated Split-Core CT	In cases where the inverter is more than 15 feet from the CT installation location. With this meter, it can be 150 feet max.
		Flexible CT Kit: <b>CHINT DTSU666 (Rogowski Coil-1000A)</b>	CHINT DTSU666 Energy Meter x2 Rogowski Coils	In cases where split-core CTs will not fit and flexible CTs are required. This kit supports up to x6 inverters max.
S6-EH3P(30-60)K-NV-YD-H-US	Easton SDM630-MCT-OCS Energy meter x3 Rogowski Coils (500A)	600A CT Kit: <b>AKH-0.66-K-80* 40-600A</b>	x3 Split-Core CTs rated for 600A each	In cases where 600A-rated CTs are required. The Rogowski coils included with the inverter are rated for 500A. This kit supports up to x6 inverters max.
S6-GC(25-60)K-US S5GC(60-125)K-US S6GC30K-LV-US S5 GC60K-LV-US	None Included	Solis Export Power Kit: <b>EPM3-5G-PRO</b>	EPM3-5G-PRO kit: EPM3-5G-PRO Acrel ADL3000-E-B Energy Meter Note: CTs not included	To have export power control for grid-tied Solis inverters (480Vac). Acrel AKH-0.66K CTs must be purchased separately. CTs with the same specs are also supported.
		FOMware Kit: <b>FOMware SE-A4<sup>(1)(2)</sup></b>		
Solis-(125-185)K-EHV-5G-US	None Included	FOMware Kit: <b>FOMware SE-A4<sup>(1)(2)</sup></b>	Kits come with everything needed including gateway and Cts	To have export power control for grid-tied Solis inverters (600Vac) Note: FOMware is the only option for export power control with this series.

<sup>(1)</sup> FOMware SE-A4 kit include all components required: meter, current transformers, monitoring components, etc

<sup>(2)</sup> FOMware SE-A4 kit must be purchased from a third-party vendor or from FOMware directly. Solis does not sell these kits..