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[1]
- An external rapid shutdown initiation switch can be connected[2]
- Module-level optimization & module-level monitoring are optional features
- The inverter can be ordered with no signal transmitter as well[3]

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[4] -NEPT
S6-EH1P(3.8-11.4)K-H-US	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
Solis-1P(3.6-10)K-4G-US	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
S6-GC(25-60)K-US; S6-GC30K-LV-US	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
S5-GC(75-125)K-US; S5-GC60K-LV-US	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

*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 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 here.
	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.	Addendum Link; Tech Bulletin
	TerraGen	TGR, TGT, TGP systems		Addendum Link; Certificate Link
	Schletter	FixGrid Pro		Addendum Link
	Panelclaw	clawFR/clawFR Plus		Addendum Link; Certificate Link
	Aerocompact	CompactFlat		Addendum Link; Certificate Link
	Unirac (25-60K)	RM5		Addendum Link
	Sollega	FastRack		Addendum Link; Certificate Link
	Sunmodo	SunModo PV Rack Mounting System; NanoRack PV Mounting System		Addendum Link
	KB Racking	AeroGrid; EkonoRack 2.0		Website Link

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 tables applies to S6-EH1P(3.8-11.4)K-H-US residential products and will as well apply as we continue to expand our commercial hybrid portfolio.

UL9540 Certified Compatible High Voltage Battery List

Battery Brand	Model	Min. Capacity	Max. Capacity	Max. Parallel	Interoperability Test	UL9540 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
Pylontech	Force H1	10.65 kWh (3 modules)	24.85 kWh (7 modules)		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
Goldenmate	Apollo-HV	6 kWh (2 modules)		≤ 7	Complete	Complete
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	Pending

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 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.