

Sunverge Energy's AC-coupled Solar Integration System (SIS) offers a range of battery capacity options and works with existing or new solar photovoltaic (PV) installations. Designed for indoor and outdoor environments alike, the UL-certified appliance combines battery storage and complete power electronics in a single unit controlled by Sunverge's advanced cloud-based software platform. Offering the industry's best back-up power, this system enables homeowners to power more appliances and in different combinations than is possible with competing solutions. The Sunverge SIS, unlike traditional AC-coupled systems, provides dedicated connections for PV and critical load panels inside the system, which results in less external wiring and faster installation. In addition, the Sunverge SIS allows control of the external PV system, a vital feature in markets with grid export limits, such as in Hawaii.

Model	SIS - 6848	SIS - 5548
AC Input/Output	60 Hz	
Continuous Output Power	6,000 W	4,500 W
Surge Rating (10 seconds)	7,000 W	6,000 W
AC Input Voltage	120/240 VAC Split Phase	
AC Output Voltage	L-N: 120 V +/- 3%; L-L: 240 V +/- 3%	
AC Input Current	27.1 A L-L, 40.7, L-N	21.7 A L-L, 32.5 A L-N
AC Output Current	25 A L-L, 37.5 A L-N	18.8 A L-L, 28.2 A L-N
Recommended AC Breaker Size	40A	
Output Wave Form	True Sine Wave	
Total Harmonic Distortion	<5% at rated power	
Automatic Transfer Relay Rating/Typical Transfer Time from Grid Power to Back-Up	60 A / 8 milliseconds	
Inverter Peak Efficiency	95.7%	
CEC Weighted Efficiency	92.5%	93.0%

Certifications	
Inverter & Interconnection	UL 1741-2005 & CSA 107.1-01 IEEE 1547, CSA 107.1 FCC Class B CPUC Interconnection Rule 21
Battery	UN 38.3, UL 1973, UL 1642
Enclosure	NEMA 3R, UL 50E
Fully Integrated System	UL 1741, UL 1778

Advanced Controls Software	All Models
System Network	CAN BUS
External APIs	HTTPS Web Services
Remote Communications	HTTPS Over TCP/IP
Local Communications	Ethernet or Cellular (additional option)
Command Latency	< 500 milliseconds
Support	Sunverge NOC monitoring, and dedicated support staff

Mechanical	
Installed Dimensions	76 in (192 cm) x 34 in (86 cm) x 14 in (36 cm)
Battery	Weight
7.7kWh	600 lbs (272 kg)
11.6kWh	665 lbs (302 kg)
15.5kWh	725 lbs (329 kg)
19.4kWh	789 lbs (358 kg)
Outdoor/Rainproof	NEMA 3R: IEEE C57.12.52 Section 6 C57.28 Section 4
Ambient Temperature Operating Range*	-4° F (-20° C) to 122° F (50° C) (optional heater available)
Maximum Ambient Temperature, Full Power	104° F (40° C)
Cooling	Forced Air
Paint	IEEE C57.12.28 Section 5, Powder Coating
Mounting	Anchor/Polycrete Pad
Grounding	Utility Ground
Nameplate	Conn. Diag. Rating ETC IEEE c57.12.00

Battery	All Models
Battery Type	Li-Ion
Battery Voltage	48 V
Battery Capacity Options (nameplate)	Modular: 7.7 kWh, 11.6 kWh, 15.5 kWh or 19.4 kWh



*Performance may be limited in extreme hot and cold weather. For more details, contact your Sunverge representative. See Section 3 Part 5 of the Installation Manual for further information on system ratings