

SunPower® SunVault™ Energy Storage System (ESS)

Performance		
SunVault Base		SunVault Energy Expansion
Model Number	SV-BASE13-12-B	SV-ENERGY13-12-B
DC Rated Energy	13 kWh (128 Ah)	
Max. Usable Energy (DC) ¹	12 kWh (118 Ah)	
Battery Cell Chemistry	Lithium iron phosphate (LiFePO ₄)	
Nom. Internal Battery Voltage	51.2 V	
CEC Weighted RTE Efficiency ²	> 86%	
Individual DC Breaker Rating	125 A / two pole ³	
Max. AC Continuous Backup Output Current	28.3 A continuous	
Nom. AC Voltage (L-N-L)	120 / 240 VAC 60 Hz, split phase ⁴	
Max. AC Output Fault Current	35 A	
Max. Short Circuit Rating	10 kA	
AC Overcurrent Protection Device	40 A / two pole	
Max. Single-Phase Load Supported (120 V)	4.8 kW (up to 5 minutes)	
Power Factor (full-rated power)	± 0.85	
Max. Continuous Charge Power (Grid tied / Backup)	6.4 kW	
Max. Continuous Discharge Power (Grid tied)	6.0 kW	
Max. AC Continuous Output Current (Grid tied)	27 A	
System Configurations		
	Base	Base + Energy Expansion
Max. Backup Discharge Power ⁵	6.8 kW / 7.5 kW / 8.5 kW / 10 kW (cont. / 30 min. / 10 sec. / 1 sec.)	6.8 kW / 8.0 kW / 12.0 kW (cont. / 30 min. / 10 sec.)

Environmental	
Seismic Rating	IEEE 693-2005, AC-156
Environmental Rating	Indoor and outdoor rated
Acoustic Noise Level	< 50 dBA @ 1 m distance, 86°F (30°C)
Recommended Operating Temp.	32°F to 86°F (0°C to 30°C)
Ambient Operating Temp. ⁶	14°F to 122°F (-10°C to 50°C)
Shelf Ambient Temp.	-4°F to 113°F (-20°C to 45°C)
Initial Energy Reserve	30%
Humidity	0-95% (non-condensing)
Enclosure Type / Ingress Rating	NEMA Type 3R / IP54
Max. Elevation	6560 ft (2000 m)

Mechanical	
User Interface	Mobile app, LED panel
Dimensions	64.5 h x 26 w x 14.8 in. d (164 x 66 x 38 cm) ⁷
Weight	- SV-BASE13: 270 lb (122.5 kg) w/inverter; 528 lb (239.5 kg) fully assembled - SV-ENERGY13: 400 lb (181.4 kg) fully assembled
Mounting Options	Wall or floor ⁸

¹ Some energy reserved for internal consumption.

² Tested at 6 kW, 25°C conditions.

³ SunVault Hub+ rating is 200 A.

⁴ 208 VAC is not supported at this time.

⁵ Values are rated at 25°C ambient.

⁶ Extended exposure reduces battery performance.

⁷ Two enclosures for 26 kWh.

⁸ Additional hardware details in installation guide.

Some parameters can vary depending on site-specific conditions.

See the *SunVault Installation Guide 536685* for guidelines. See www.sunpower.com/facts for additional reference information. Specifications included in this datasheet are subject to change without notice. © 2021 SunPower Corporation. All Rights Reserved. SUNPOWER, the SUNPOWER logo, and SUNVAULT are trademarks or registered trademarks of SunPower Corporation in the U.S. and other countries as well. 1-800-SUNPOWER.

Warranties, Certifications, and Compliance	
Warranty	10 years
Certifications and Compliance	- IFCC Part 15 Subclass B - IEEE 1547 - UL 1973 (UL 1642) - UL 1741 - UL 1741 SA (CA Rule 21) - UL 9540 - UL 9540A - UN 38.3



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