



SunPower E-Series: E20-330-COM

SunPower® Commercial DC Panel

SunPower E-Series panels combine high efficiency with the strongest durability and warranty available in the market today, resulting in more long-term energy and savings. ^{1,2}



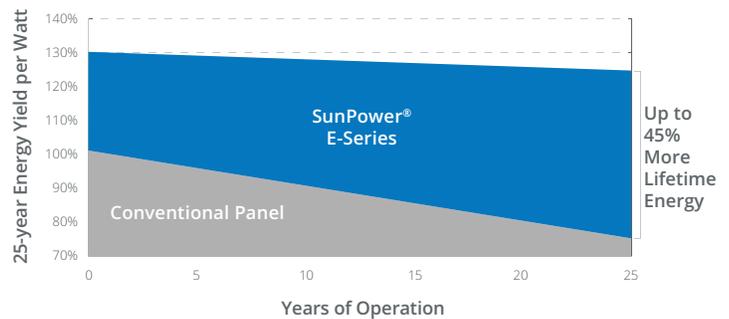
High Efficiency

Generates more power and savings per available space, making it easier to meet your organization's goals.



More Lifetime Energy and Savings

Designed to deliver 45% more energy in the same space over 25 years in real-world conditions like partial shade and high temperatures. ²



Fundamentally Different. And Better.



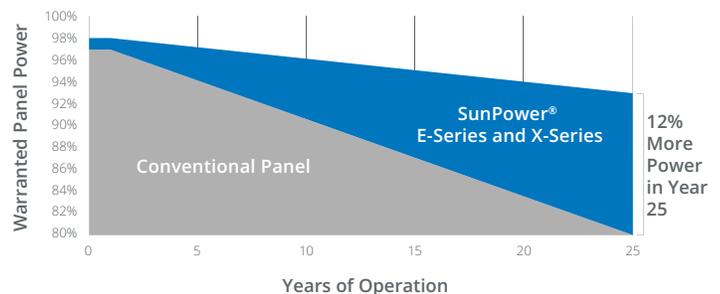
The SunPower Maxeon® Solar Cell

- Enables high efficiency panels ²
- Delivers leading reliability ³
- Patented solid metal foundation prevents breakage and corrosion



Best Reliability, Best Warranty

With more than 25 million panels deployed around the world, SunPower technology is proven to last. That's why we stand behind our panel with the industry's best 25-year Combined Power and Product Warranty, including the highest Power Warranty in solar.



E-Series: E20-330-COM SunPower® Commercial DC Panel

Electrical Data			
	SPR-E20-330-COM	SPR-E20-327-COM	SPR-E19-320-COM
Nominal Power (Pnom) ⁷	330 W	327 W	320 W
Power Tolerance	+5/-3%	+5/-3%	+5/-3%
Panel Efficiency	20.2%	20.1%	19.6%
Rated Voltage (Vmpp)	54.7 V	54.7 V	54.7 V
Rated Current (Impp)	6.04 A	5.98 A	5.86 A
Open-Circuit Voltage (Voc)	64.9 V	64.9 V	64.8 V
Short-Circuit Current (Isc)	6.52 A	6.46 A	6.24 A
Max. System Voltage	1000 V UL & 1000 V IEC		
Maximum Series Fuse	15 A		
Power Temp Coef.	-0.33% / °C		
Voltage Temp Coef.	-176.6 mV / °C		
Current Temp Coef.	2.6 mA / °C		

Tests And Certifications (Preliminary)	
Standard Tests ⁸	UL1703 (Type 2 Fire Rating), IEC 61215, IEC 61730
Quality Management Certs	ISO 9001:2015, ISO 14001:2015
EHS Compliance	RoHS, OHSAS 18001:2007, lead free, Recycle Scheme, REACH SVHC-163
Ammonia Test	IEC 62716
Desert Test	MIL-STD-810G
Salt Spray Test	IEC 61701 (maximum severity)
PID Test	1000 V: IEC 62804, PVEL 600 hr duration
Available Listings	UL, TUV, MCS, CEC

- 1 SunPower 327 W compared to a Conventional Panel on same-sized arrays (260 W, 16% efficient, approx. 1.6 m²), 4% more energy per watt (based on PVsyst pan files), 0.75%/yr slower degradation (Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, 2013).
- 2 Based on search of datasheet values from websites of top 10 manufacturers per IHS, as of January 2017.
- 3 Jordan, et. al. Robust PV Degradation Methodology and Application. PVSC 2018.
- 4 SunPower is rated #1 on Silicon Valley Toxics Coalition's Solar Scorecard.
- 5 Cradle to Cradle Certified is a multi-attribute certification program that assesses products and materials for safety to human and environmental health, design for future use cycles, and sustainable manufacturing.
- 6 X-Series and E-Series panels additionally contribute to LEED Materials and Resources credit categories.
- 7 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage.
- 8 Type 2 fire rating per UL1703:2013, Class C fire rating per UL1703:2002.
- 9 Please read the safety and installation guide for more information regarding load ratings and mounting configurations.

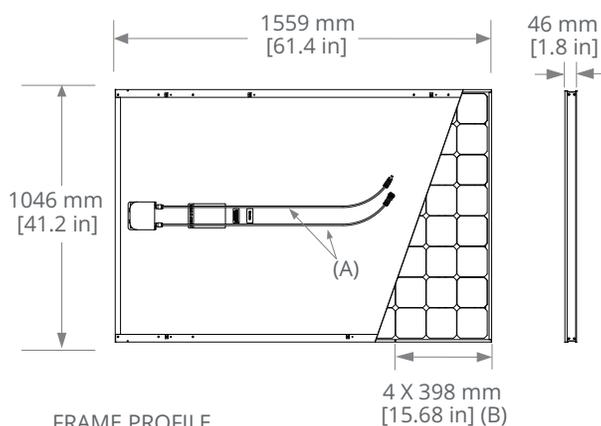
See www.sunpower.com/company for more reference information.
For more details, see extended datasheet: www.sunpower.com/solar-resources.
Specifications included in this datasheet are subject to change without notice.

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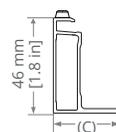
 1-800-SUNPOWER

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Operating Condition And Mechanical Data	
Temperature	-40° F to +185° F (-40° C to +85° C)
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)
Appearance	Class A
Solar Cells	96 Monocrystalline Maxeon Gen II
Tempered Glass	High-transmission tempered anti-reflective
Junction Box	IP-65, TE (PV4S)
Weight	41 lbs (18.6 kg)
Max. Test Load ⁹	Wind: 114 psf, 5500 Pa, 560 kg/m ² back Snow: 133 psf, 6400 Pa, 652 kg/m ² front
Design Load	Wind: 50 psf, 2400 Pa, 244 kg/m ² back Snow: 112 psf, 5400 Pa, 550 kg/m ² front
Frame	Class 2 silver anodized; stacking pins



FRAME PROFILE



- (A) Cable Length: 1000 mm +/- 10 mm
- (B) Stacking Pins
- (C) Long Side: 32 mm [1.3 in]
Short Side: 22 mm [0.9 in]

SUNPOWER®



527847 Rev C / LTR_US
Publication Date: April 2020

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

Solis Single Phase High Voltage Energy Storage Inverters

Features:

- Up to 4 MPPTs and 16A of DC input current allows for PV array design flexibility
- Optimization, module-level monitoring, and rapid shutdown options available
- External RSD, EPO signal and BYPASS switch are available
- UL 9540 certified with multiple different battery brands (LG, BYD, Pylontech. ect)
- Bluetooth connection to mobile phone, make the setting and operation easier
- Automatic UPS switching and up to 180% 10s surge power back up overload capacity support industrial air conditioner
- Intelligent AC coupling scheme, easily upgrade existing grid-connected systems
- Whole-home backup, generator integration, and load shading function with the new SolisHub
- Supports 1ph and 3ph flexible connection on both the Grid and Backup Port

Models:

S6-EH1P3.8K-H-US / S6-EH1P5K-H-US

S6-EH1P7.6K-H-US / S6-EH1P9.9K-H-US

S6-EH1P10K-H-US / S6-EH1P11.4K-H-US

Please consult the Ordering Guide for details on how to order the inverter with different accessories.



DATASHEET

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

Models	3.8K	5K	7.6K	9.9K	10K	11.4K
DC Input (PV)						
Max. input voltage				600 V		
Rated voltage				380 V		
Start-up voltage				80 V		
MPPT voltage range				80 - 520 V		
Max. input current per string				16 A		
Max. short circuit current per string				25.6 A		
Number of MPPTs / Number of strings per MPPT	2 / 1	3 / 1			4 / 1	
Energy Storage						
Battery type				Lithium-ion		
Battery voltage range				120 - 500 V		
Maximum charge / discharge current	25 A				50 A	
Battery communication				CAN / RS485		
Number of batteries per inverter				See Battery Compatibility Sheet		
AC Output (Grid)						
Rated output power	3800 W	5000 kW	7600 W	9990 W	10000 W	11400 W
Max. apparent output power	3800 VA	5000 kVA	7600 VA	9990 VA	10000 VA	11400 VA
Rated output voltage				240 V		
Rated frequency				60 Hz		
Rated output current	15.8 A	20.8 A	31.7 A	41.7 A	41.7 A	47.5 A
Max. output current	15.8 A	20.8 A	31.7 A	41.7 A	41.7 A	47.5 A
THDi				< 3%		
AC Input (Grid)						
Input voltage range				211 - 264 V		
Grid pass through power	15.8 A	20.8 A	31.7 A	41.7 A	41.7 A	47.5 A
Max. input current	23.8 A	31.2 A	47.6 A	62.6 A	62.6 A	71.3 A
Frequency range				58.8 - 61.2 Hz		
AC Output (Backup and Off-grid)						
Rated output power	3800 W	5000 kW	7600 W	9990 W	10000 W	11400 W
Max. apparent output power	6.8 kVA, 10 s	9 kVA, 10 s	13.7 kVA, 10 s	18 kVA, 10 s	18 kVA, 10 s	20.5 kVA, 10 s
Back-up switch time				< 10 ms		
Phase power				240 V Split-Phase		
Rated output voltage (L1-L2)				240 V		
AC output voltage range				211 - 264 V		
Rated grid frequency				60 Hz		
Frequency range				55 - 65 Hz		
Rated AC output current	15.8 A	20.8 A	31.7 A	41.7 A	41.7 A	47.5 A
Max. output overcurrent protection, 10 s	25.4 A	33.3 A	50.7 A	66.7 A	66.7 A	76 A
Max. allowable phase imbalance				100%		
Backup support configurations				Whole-home and dedicated loads		
Power factor				> 0.99 (0.8 leading - 0.8 lagging)		
THDv (@linear load)				< 3%		
Efficiency						
PV Max. efficiency	97.0%				97.6%	
PV CEC efficiency	96.5%				97.0%	
Battery charged by PV max. efficiency				98.5%		
Battery charged / discharged to AC max. efficiency				97.0%		
Protection						
Ground fault detection				Yes		
Residual (leakage) current detection				Yes		
Integrated AFCI				Yes		
DC reverse-polarity protection				Yes (PV only)		
Manual inverter bypass switch				Yes		
Rapid shutdown NEC 2017				Integrated SunSpec-certified Transmitter		
Compatible RSD receivers				See MLRSD Compatibility Sheet		
Protection class / Over voltage category				I / II		
General Data						
Dimensions (W × H × D)	19.21 × 28.35 × 8.66 in (490 × 720 × 220 mm)				22.05 × 29.53 × 8.66 in (560 × 750 × 220 mm)	
Weight	52.43 lbs (23.78 kgs)				71.74 lbs (32.54 kgs)	
Topology				Transformerless		
Self-consumption (night)				< 20 W		
Operating ambient temperature range				-13°F to 140°F (-25°C to 60°C)		
Ingress protection				TYPE 4X		
Noise emission (typical)				< 30 dB(A)		
Self-consumption (night)				< 20 W		
Cooling method				Natural cooling		
Mounting type				Wall Bracket		
Max. operation altitude				13,120 ft (4000 m)		
Compliance				UL1741SB, IEEE1547-2018, UL1699B, UL1998, FCCPart15ClassB, California Rule21, NEC 690.12-2020, CAN/CSA C22.2107.1-1, HECO Rule 14H, Luma Listed		
Generator support				Yes; up to 25 kW (with a Solis Power Hub)		
Features						
DC connection				1 in. knockouts for conduit (×2) on the side and bottom; Spring clamp terminals		
AC connection				1.5 in. knockouts for conduit (×3) on the side and bottom; Spring clamp terminals		
Interface				LED indicator & Bluetooth + APP		
Integrated revenue grade meter				Optional		
Monitoring platform				SolisCloud (modbus map and API sharing available upon request)		
Revenue grade meter				Integrated ANSI C12.20 option		
Communication				RS485, Optional: Cellular, Wi-Fi, LAN		

Specification

Model	YL-HV384025	YL-HV384050
Electrical		
Battery Type	LiFePO4	
Nominal Voltage	384V	384V
Nominal Capacity	25Ah	50Ah
Nominal Energy	9.6kWh	19.2kWh
Max. Output Power	9.6kW	19.2kW
Recommended Charge Current	12.5A	25A
Max. Continuous Charge Current	25A	50A
Max. Continuous Discharge Current	25A	50A
Mechanical		
Net Weight	85kg	140kg
Dimension (W*D*H)	600*850*200mm	950*1350*200mm
Installation Way	Indoor Wall Mount or Floor Installation	
IP Rating	IP65	
Operation & Configurations		
Battery Level	Brand New Premium Grade A Battery Cells	
BMS Level	High Precision Intelligent BMS	
Alarm and Protection	Multiple Protections from Battery Cells to Battery Pack	
Operating Voltage	300.00~438.00V	
Operating Temperature Charging	0~55°C	
Operating Temperature Discharging	-20~60°C	
Monthly Self Discharge	≤2% @25°C	
Efficiency of Charge & Discharge	≥99.5% @0.2C	
Cycle Life	More than 6,000 Times*	
Communication	CAN/RS485	
Compatible Inverters	Growatt, Solis, Deye, Sol-Ark, SunSynk, Goodwe, Sofar, SMA, Megarevo, Afore, etc	
Parallel Capability	Support up to 15 PCS in Parallel	
	Expendable up to 144kWh	Expendable up to 288kWh
Monitoring & Commissioning	PC Terminal or WiFi Module Remote Monitoring (Optional)	
Warranty	5 to 10 Years	
Certifications & Safety Standards	CE, IEC62619, IEC/EN61000-3, IEC/EN61000-6, ROHS, UL1973, UN38.3, MSDS	

*: @0.2C, 80% DoD, 25°C

Upcoming Certification: UL1973 cULus (USA and Canadian Version)



High Voltage Batteries

PowerUp Series

Water-proof Wall Mounted 384VDC Battery

Contact Us



Find more



User Friendly

- 10kWh to 288kWh expendable
- Excellent inverter communication compatibility:
Growatt, Solis, Deye, Sol-Ark, SunSynk, Goodwe, Sofar, SMA, Megarevo, Afore, etc
- PC Monitoring and optional WiFi remote monitoring & commissioning
- Wall-mounted, Floor-standing
- High energy density with light-weight
- Full set of matched accessories supported

Track Records of Reliability

- 860 MWh** Over 860 MWh battery system global deployment
- 0%** 0% complaint rate for battery cells
- 0.5%** < 0.5% complaint rate for BMS
- 24 HOUR** 5 to 10 years warranty with 24 hours response after-sales services
- Complied with IEC62619, EN/IEC61000-3, EN/IEC-61000-6, UL1973, RoHS, CE, MSDS, UN38.3

Premium High Configurations

- 6,000 cycles** More than 6,000 cycles
- 10-15 years** 10~15 years life span
- 100%** 100%DoD supported 98% efficiency
- IC/BMS** High Precision IC, Intelligent BMS
- Meeting residential, commercial & industrial standards**
- A** Guaranteed Brand-New Premium Quality Grade A Battery Cells

