

SUNPOWER®

MORE ENERGY. FOR LIFE.™

Extended Data – E-Series Residential;

SPR-E20-327, SPR-E19-315,

SPR-E20-245, SPR-E18-235

ADDITIONAL MODULE PARAMETERS AND INFORMATION

TESTS AND CERTIFICATIONS	
Standard tests	UL 1703, IEC 61215, IEC 61730
Quality tests	ISO 9001:2008, ISO 14001:2004
EHS Compliance	RoHS, OHSAS 18001:2007
Ammonia test	IEC 62716
Salt-spray test	IEC 61701 (max. severity)
PID test	Potential-Induced Degradation free – 1000V

WARRANTY, IMPACT RESISTANCE, FUSE RATING, J-BOX	
WARRANTIES	25-YEAR LINEAR POWER WARRANTY 25-YEAR LIMITED PRODUCT WARRANTY
Impact Resistance	(hail) 25mm (1 inch) diameter at 23 m/s (52 mph)
Max Series Fuse	20 Amp rating
Connectors	MC4 Compatible with cable lengths, 700mm (128 cell) and 1000mm (96 & 72 cell)
Junction Box	For J-Box specifics, please contact your regional sales team

E-SERIES MAJOR GLOBAL MARKET LISTINGS		
Residential Modules	96-Cell Modules	72-Cell Modules
*Major Market Listings	CEC, JET, KEMCO, MCS, FSEC, CSA, UL, TUV	CEC, JET, MCS, FSEC, CSA, UL, TUV
*Platforms options available in listed markets, but every individual sku may not be available in each referenced market		

PLATFORM ELECTRICAL DATA

STC Values

Module	Platform (Number of cells)	At Standard Test Conditions							
		Nominal Power	Power Tolerance (%)	Rated Voltage (Vmp)	Rated Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current, Isc (A)	Max System Voltage UL (Vmax)	Max System Voltage IEC (Vmax)
SPR-E20-327	96	327	+5/-0	54.7	5.98	64.9	6.46	600	1000
SPR-E19-315	96	315	+5/-0	54.7	5.76	64.6	6.14	600	1000
SPR-E20-245	72	245	+5/-0	40.5	6.05	48.8	6.43	600	1000
SPR-E19-235	72	235	+5/-0	40.5	5.80	48.4	6.18	600	1000

PLATFORM ELECTRICAL DATA (continued)**TEMPERATURE COEFFICIENTS & EFFICIENCY REFERENCES**

At Standard Test Conditions		Basic Temperature Data					Efficiency Numbers		
Module	Nominal Power	Avg Power	Current (Isc) Temp. Coeff. (mA/ C)	Voltage (Voc) Temp. Coeff. (mV/ C)	Power Temp. Coeff. (%/ C)	NOCT @ 20 C (Value +/- 2 C)	Average Power Efficiency (%)	Nominal Peak Power per Unit Area (W/m ²)	Nominal Peak Power per Unit Area (W/ft ²)
SPR-E20-327	327	333	3.5	-176.6	-0.38%	45.0	20.4%	204.2	19.0
SPR-E19-315	315	321	3.5	-176.6	-0.38%	45.0	19.7%	196.8	18.3
SPR-E20-245	245	<u>249</u>	3.5	-132.5	-0.38%	45.0	20.0%	200.2	18.6
SPR-E19-235	235	242	3.5	-132.5	-0.38%	45.0	19.5%	194.5	18.1

PLATFORM PERFORMANCE AT NOCT(800 W/m², 20°C ambient, 1 m/s wind speed)

Module	At STC	Nominal Electrical data at NOCT (NOCT : 800W/m ² , 20 C amb. Temp., 1m/s wind speed)					
		Nominal Power	NOCT Pnom	NOCT Vmpp	NOCT Imp	NOCT Voc	NOCT Isc
SPR-E20-327	327	248	51.5	4.82	60.8	5.22	75.9%
SPR-E19-315	315	239	51.5	4.64	60.5	4.97	75.9%
SPR-E20-245	245	182	37.4	4.88	45.7	5.20	74.4%
SPR-E19-235	235	175	37.4	4.68	45.3	5.00	74.4%

PLATFORM PERFORMANCE AT LOW IRRADIANCE(200 W/m², 25°C cell temperature, air mass 1.5 SSID*)

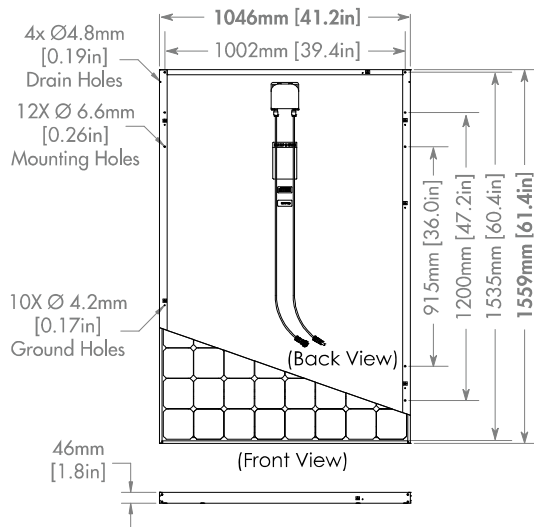
Module	At STC	Irradiance vs. Power at Low Irradiance (200W/m ² and @25C (SNL coefficients))			
		Nominal Power	Low irradiance Pmpp (W)	Low irradiance Vmpp (V)	Low irradiance Imp (A)
SPR-E20-327	327	62.8	52.0	1.21	19.2%
SPR-E19-315	315	60.5	52.0	1.16	19.2%
SPR-E20-245	245	47.0	38.5	1.22	19.2%
SPR-E19-235	235	45.1	38.5	1.17	19.2%

* SSID = Solar Spectral Irradiance Distribution

MODULE PLATFORM DIMENSIONS

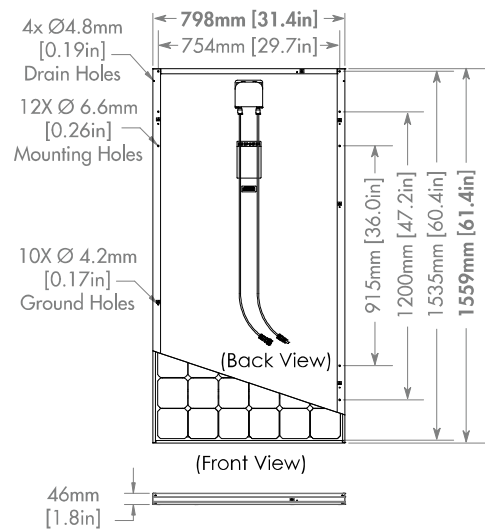
96 CELL

(SPR-E20-327, SPR-E19-315)



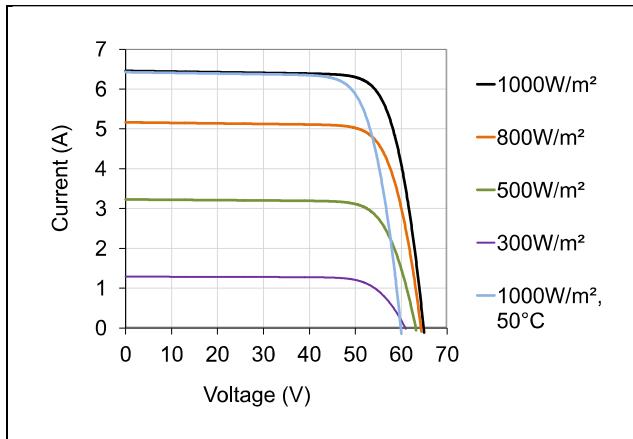
72 CELL

(SPR-E20-245, SPR-E18-235)



IV CURVES OF PRIMARY PLATFORM MODELS

SPR-E20-327



SPR-E20-245

