



Manufacturer	SUNPOWER	Number of modules	12	Test number	1	
Model	SPR-E19-315-BLK	Number of strings	1	Date and time	2022-03-28 19:47	
Module Type	Std - Single side PV module	Age of service [Year]	0.0	Marker 1	Plant	
Degradation [%]	0.0	Irradiance front [W/m <sup>2</sup> ]	850.0	Marker 2	Combiner box	
Pmax Tolerance+ [%]	15.0	Irradiance back side Top   Bottom [W/m <sup>2</sup> ]	----   ----	Marker 3	Array	
Pmax Tolerance- [%]	15.0	Temperature [°C]	5.7			
Voc@Nominal [V]	64.6	Voc@OPC [V]	817.2	Voc@STC [V]	64.4	
Vmpp@Nominal [V]	54.7	Vmpp@OPC [V]	656.2	Vmpp@STC [V]	50.4	
Imp@Nominal [A]	5.76	Imp@OPC [A]	5.46	Imp@STC [A]	6.48	
Isc@Nominal [A]	6.14	Isc@OPC [A]	5.98	Isc@STC [A]	7.09	
Pmax@Nominal [W]	315.0	Pmax@OPC [W]	3582.7	<b>Pmax@STC [W]</b>	<b>326.5</b>	<b>Ok (3.6%)</b>
Manufacturer	SUNPOWER	Number of modules	12	Test number	2	
Model	SPR-E19-315-BLK	Number of strings	1	Date and time	2022-03-28 19:51	
Module Type	Std - Single side PV module	Age of service [Year]	0.0	Marker 1	Plant	
Degradation [%]	0.0	Irradiance front [W/m <sup>2</sup> ]	1000.0	Marker 2	Combiner box	
Pmax Tolerance+ [%]	15.0	Irradiance back side Top   Bottom [W/m <sup>2</sup> ]	----   ----	Marker 3	Array	
Pmax Tolerance- [%]	15.0	Temperature [°C]	8.1			
Voc@Nominal [V]	64.6	Voc@OPC [V]	817.2	Voc@STC [V]	64.4	
Vmpp@Nominal [V]	54.7	Vmpp@OPC [V]	656.2	Vmpp@STC [V]	51.0	
Imp@Nominal [A]	5.76	Imp@OPC [A]	5.46	Imp@STC [A]	5.50	
Isc@Nominal [A]	6.14	Isc@OPC [A]	5.98	Isc@STC [A]	6.02	
Pmax@Nominal [W]	315.0	Pmax@OPC [W]	3582.7	<b>Pmax@STC [W]</b>	<b>280.7</b>	<b>Ok* (-10.9%)</b>
Manufacturer	SUNPOWER	Number of modules	12	Test number	3	
Model	SPR-E19-315-BLK	Number of strings	1	Date and time	2022-03-28 19:53	
Module Type	Std - Single side PV module	Age of service [Year]	0.0	Marker 1	Plant	
Degradation [%]	0.0	Irradiance front [W/m <sup>2</sup> ]	1100.0	Marker 2	Combiner box	
Pmax Tolerance+ [%]	15.0	Irradiance back side Top   Bottom [W/m <sup>2</sup> ]	----   ----	Marker 3	Array	
Pmax Tolerance- [%]	15.0	Temperature [°C]	9.5			
Voc@Nominal [V]	64.6	Voc@OPC [V]	817.2	Voc@STC [V]	64.4	
Vmpp@Nominal [V]	54.7	Vmpp@OPC [V]	656.2	Vmpp@STC [V]	51.4	
Imp@Nominal [A]	5.76	Imp@OPC [A]	5.46	Imp@STC [A]	5.00	
Isc@Nominal [A]	6.14	Isc@OPC [A]	5.98	Isc@STC [A]	5.47	
Pmax@Nominal [W]	315.0	Pmax@OPC [W]	3582.7	<b>Pmax@STC [W]</b>	<b>256.7</b>	<b>Not Ok* (-18.5%)</b>
Manufacturer	SUNPOWER	Number of modules	12	Test number	4	
Model	SPR-E19-315-BLK	Number of strings	1	Date and time	2022-03-28 19:54	
Module Type	Std - Single side PV module	Age of service [Year]	0.0	Marker 1	Plant	
Degradation [%]	0.0	Irradiance front [W/m <sup>2</sup> ]	1150.0	Marker 2	Combiner box	
Pmax Tolerance+ [%]	15.0	Irradiance back side Top   Bottom [W/m <sup>2</sup> ]	----   ----	Marker 3	Array	
Pmax Tolerance- [%]	15.0	Temperature [°C]	10.2			
Voc@Nominal [V]	64.6	Voc@OPC [V]	817.2	Voc@STC [V]	64.4	
Vmpp@Nominal [V]	54.7	Vmpp@OPC [V]	656.2	Vmpp@STC [V]	51.5	
Imp@Nominal [A]	5.76	Imp@OPC [A]	5.46	Imp@STC [A]	4.78	
Isc@Nominal [A]	6.14	Isc@OPC [A]	5.98	Isc@STC [A]	5.23	
Pmax@Nominal [W]	315.0	Pmax@OPC [W]	3582.7	<b>Pmax@STC [W]</b>	<b>246.1</b>	<b>Not Ok (-21.9%)</b>