

Datasheet

	SP 144	SP 130	SP 118 L	SP 118 Q	SP 104	SP 78	SP 52 L	SP 52 Q
Maximum power ($\pm 5\%$) [W]	144	130	118	118	104	78	52	52
Length Y [mm]	1490	1363	1236	855	1109	855	1109	601
Width X [mm]	546	546	546	800	546	546	292	546
Thickness [mm]	2	2	2	2	2	2	2	2
Weight [kg]	1.90	1.70	1.60	1.60	1.40	1.10	0.80	0.80
Max power Voltage V_{mp} [V]	25.3	22.8	20.7	20.7	18.2	13.7	9.1	9.1
Max power Current I_{mp} [A]	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Open circuit voltage V_{oc} [V]	30.0	27.3	24.5	24.5	21.8	16.4	10.9	10.9
Short circuit current I_{sc} [A]	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
NOCT [$^{\circ}\text{C}$]	45 \pm 2	45 \pm 2	45 \pm 2	45 \pm 2	45 \pm 2	45 \pm 2	45 \pm 2	45 \pm 2
Operating temperature [$^{\circ}\text{C}$]	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85	-40/+85
Temp. coeff. P_{max} [%/$^{\circ}\text{C}$]	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35	-0.35
Temp. coeff. V_{oc} [%/$^{\circ}\text{C}$]	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
Temp. coeff. I_{sc} [%/$^{\circ}\text{C}$]	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Columns x Rows (cells n$^{\circ}$)	4x11 (44)	4x10 (40)	4x9 (36)	6x6 (36)	4x8 (32)	4x6 (24)	2x8 (16)	4x4 (16)
Maximum system voltage [V]	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
Maximum reverse current [A]	12 A	12 A	12 A	12 A	12 A	12 A	12 A	12 A
Safety class	A	A	A	A	A	A	A	A

* Values at STC = Standard Test Conditions: (a) light Spectrum for an Air Mass of 1.5; (b) irradiance of 1000 W/m² with perpendicular incidence and (c) cell temperature of 25 $^{\circ}\text{C}$. Measurements carried out according to the Standard IEC 61215 requirements.