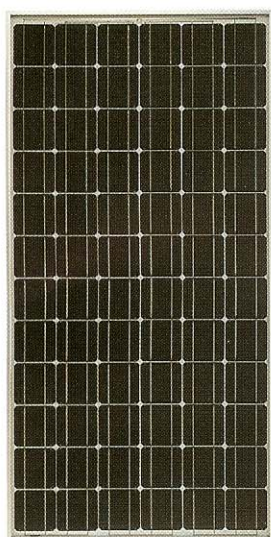


Solar Modules: The complete product line



SM110/SM100



SM55/SM50



SM50-H



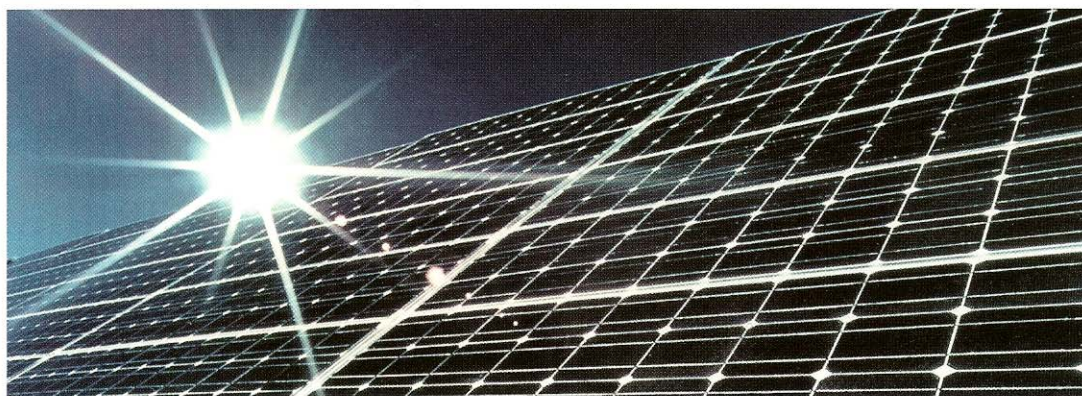
SM46

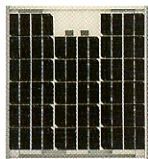


SM20

Module type	SM110	SM100	SM110-L	SM100-L	SM55/SM50	SM50-H	SM46	SM20
Electrical parameters								
Rated power P _{max} [W _p]	110	100	110	100	55 / 50	50	46	20
Configuration	12/24 V	12/24 V	12/24 V	12/24 V	12 V	12 V	12 V	12 V
Rated current I _{MPP} [A]	6.3/3.15	5.9/2.95	6.3/3.15	5.9/2.95	3.15 / 3.05	3.15	3.15	1.38
Rated voltage U _{MPP} [V]	17.5/35.0	17.0/34.0	17.5/35.0	17.0/34.0	17.4 / 16.6	15.9	14.6	14.5
Short circuit current I _{SC} [A]	6.9/3.45	6.5/3.25	6.9/3.45	6.5/3.25	3.45 / 3.4	3.35	3.35	1.6
Open circuit voltage U _{OC} [V]	21.7/43.5	21.0/42.0	21.7/43.5	21.0/42.0	21.7 / 21.4	19.8	18.0	18.0
Physical parameters								
Length A [inches (mm)]	52 (1321)		51.45 (1307)		50.9 (1293)	48.0 (1219)	42.7 (1083)	22.3 (567)
Width B [inches (mm)]	25.98 (660)		25.67 (652)		13.0 (329)	13.0 (329)	13.0 (329)	12.9 (328)
Depth C [inches (mm)]	1.6 (40)		.02 (5.5)		1.3 (34)	1.3 (34)	1.3 (34)	1.4 (35)
Depth including terminal box [inches (mm)]	2.1 (54)		2.0 (52)		–	–	–	–
Weight [pounds (kg)]	25.1 (11.5)		20.73 (9.5)		12.0 (5.5)	11.5 (5.2)	10.2 (4.6)	5.6 (2.5)
Interconnect Type								
Type of terminal box	Sp		Sp		S	S	S	cable
Mounting holes								
Hole distance D [inches (mm)]	50.5 (1283)		–		49.8 (1264)	46.9 (1191)	41.5 (1054)	21.3 (540)
Hole distance E [inches (mm)]	25.3 (643)		28.93 (735')		25.3 (643)	25.3 (643)	25.3 (643)	–
Hole distance F [inches (mm)]	24.2 (615)		–		11.3 (286)	11.3 (286)	11.3 (286)	11.3 (286)
Performance warranty [years]	25		25		25	25	25	10

Power specifications are at standard test conditions of: 1000 W/m² solar irradiance, 25°C cell temperature and solar spectral irradiance per ASTM E892.
Detailed data sheets for all module types available at your qualified Siemens Solar dealer.

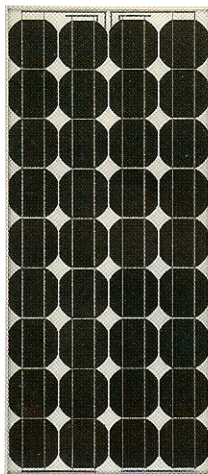




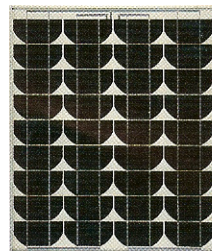
SM10



SM6



SP75/SP70



SP36



SP18

Module type	SM10	SM6	SP75	SP70	SP36	SP18
Electrical parameters						
Rated power P_{max} [W _p]	10	6	75	70	36	18
Configuration	12 V	12 V	6 / 12 V*	6 / 12 V*	6 V / 12 V*	6 V / 12 V*
Rated current I_{MPP} [A]	0.61	0.39	8.8 / 4.4	8.5 / 4.25	4.2 / 2.1	2.1 / 1.1
Rated voltage U_{MPP} [V]	16.3	15.0	8.5 / 17.0	8.25 / 16.5	8.5 / 17.0	8.5 / 17.0
Short circuit current I_{SC} [A]	0.71	0.42	9.6 / 4.8	9.4 / 4.7	4.8 / 2.4	2.4 / 1.2
Open circuit voltage U_{OC} [V]	19.9	19.5	10.9 / 21.7	10.7 / 21.4	10.9 / 21.7	10.9 / 21.7
Physical parameters						
Length A [inches (mm)]	14.2 (360)	13.0 (330)	47.3 (1200)		24.9 (633)	24.9 (633)
Width B [inches (mm)]	13.0 (330)	6.9 (175)	20.8 (527)		20.8 (527)	10.8 (275)
Depth C [inches (mm)]	1.4 (35)	1.4 (35)	1.3 (34)		1.3 (34)	1.3 (34)
Depth including terminal box	—	—	2.2 (56)		2.2 (56)	2.2 (56)
Weight [pounds (kg)]	3.7 (1.8)	2.2 (1.0)	16.7 (7.6)		9.5 (4.3)	5.9 (2.7)
Interconnect Type						
Type of terminal box	cable	cable	CR		CR	CR
Mounting holes						
Hole distance D [inches (mm)]	13.1 (333)	11.9 (303)	46.1 (1172)		23.9 (607)	23.9 (607)
Hole distance E [inches (mm)]	—	—	25.3 (643)		6.0 (152)	6.0 (152)
Hole distance F [inches (mm)]	11.3 (287)	5.2 (132)	19.0 (483)		19.0 (483)	9.2 (232)
Performance warranty [years]	10	10	25		10	10

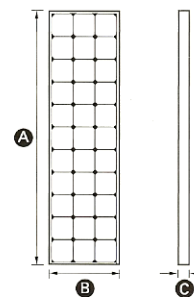
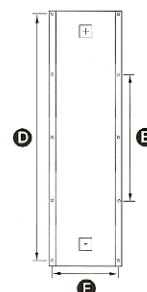
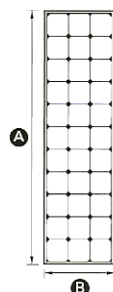
Power specifications are at standard test conditions of: 1000 W/m² solar irradiance, 25°C cell temperature and solar spectral irradiance per ASTM E892.
Detailed data sheets for all module types available at your qualified Siemens Solar dealer.

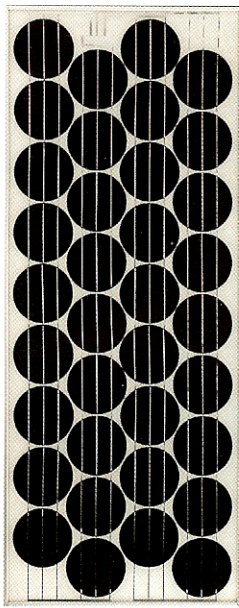
* Voltage selectable. Default setting: 12 V.

Legend

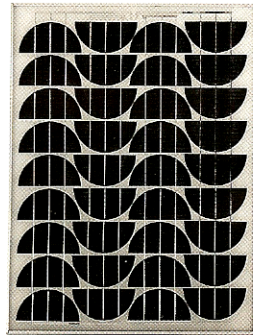
- 1 terminal box
- 2 terminal boxes
- cable

¹⁾ Distance between mounting clamps





SR100/SR90



SR50



ST40



ST20



ST10



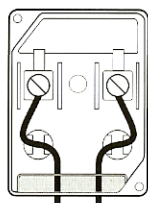
ST5

Module type	SR100	SR90	SR50	ST40	ST20	ST10	ST5
Electrical parameters							
Rated power P_{max} [W _p]	100	90	50	40	20	10	5
Configuration	6 V / 12 V*	6 V / 12 V*	6 V / 12 V*	12 V	12 V	12 V	12 V
Rated current I_{MPP} [A]	11.2 / 5.6	10.8 / 5.4	5.9 / 2.95	2.41	1.29	0.64	0.32
Rated voltage U_{MPP} [V]	8.85 / 17.7	8.5 / 17.0	8.5 / 17.0	16.6	15.6	15.6	15.6
Short circuit current I_{SC} [A]	12.6 / 6.3	12.2 / 6.1	6.4 / 3.2	2.59	1.48	0.74	0.37
Open circuit voltage U_{OC} [V]	11 / 22	10.8 / 21.6	10.8 / 21.6	22.2	21	21	21
Physical parameters							
Length A [inches (mm)]	59.0 (1498)		30.8 (783)	50.9 (1293)	29.5 (748)	15.25 (387)	8.12 (206)
Width B [inches (mm)]	23.4 (594)		23.4 (594)	12.96 (329)	12.96 (329)	12.96 (329)	12.96 (329)
Depth C [inches (mm)]	1.6 (40)		1.3 (34)	1.3 (34)	1.3 (34)	1.3 (34)	1.3 (34)
Depth including terminal box [inches (mm)]	2.2 (56)		2.2 (56)	1.4 (36)	NA	NA	NA
Weight [pounds (kg)]	24.0 (10.9)		13.0 (5.9)	15.1 (7.02)	8.84 (4.1)	5.16 (2.4)	3.01 (1.4)
Interconnect Type							
Type of terminal box	CR		CR	S	cable	cable	cable
Mounting holes							
Hole distance D [inches (mm)]	57.6 (1463)		25.3 (643)	49.8 (1264)	28.3 (719.3)	14.1 (358.9)	7 (177.8)
Hole distance E [inches (mm)]	25.3 (643)		15.35 (390)	25.3 (643)	NA	NA	NA
Hole distance F [inches (mm)]	21.9 (558)		21.7 (550)	11.3 (286)	11.21 (284.7)	11.21 (284.7)	11.21 (284.7)
Performance warranty [years]	25		25	5	5	5	5

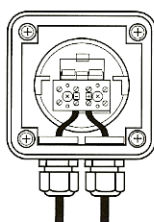
Power specifications are at standard test conditions of: 1000 W/m² solar irradiance, 25°C cell temperature and solar spectral irradiance per ASTM E892. Detailed data sheets for all module types are available from your qualified Siemens Solar dealer.

* Voltage selectable. Default setting: 12 V.

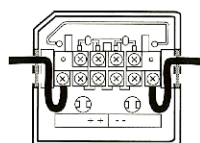
ProCharger™-S box



Sp box

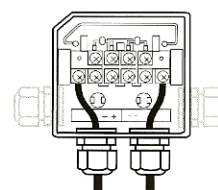


ProCharger™-CR box



Wire entry shown

ProCharger™-CR box



Cable fittings shown