

Solar PV module SI-60PS

Electrical data (STC)			SI-60PS250	SI-60PS255	SI-60PS260	SI-60PS265
Rated Power	P_{MPP}	[W]	250	255	260	265
Rated voltage	V_{MPP}	[V]	30.3	30.4	30.5	30.7
Rated current	I_{MPP}	[A]	8.24	8.38	8.51	8.64
Open-circuit voltage	V_{OC}	[V]	37.5	37.6	37.7	37.7
Short circuit current	I_{SC}	[A]	8.76	8.88	9.01	9.14
Efficiency	η	[%]	15.2	15.5	15.8	15.3

Electrical values measures under standard test conditions (STC): 1000 W/m² ; 25°C; AM 1.5

Electrical data (NOCT)			SI-60PS250	SI-60PS255	SI-60PS260	SI-60PS265
Power	P_{MPP}	[W]	183	187	190	194
Voltage	V_{MPP}	[V]	27.4	27.5	27.6	27.7
Current	I_{MPP}	[A]	6.67	6.78	6.89	7.00
Open-circuit voltage	V_{OC}	[V]	34.5	34.6	34.6	34.7
Short-circuit current	I_{SC}	[A]	7.12	7.22	7.33	7.43
Efficiency	η	[%]	13.9	14.2	14.5	14.0

Electrical values measures under operating conditions of cells: 800 W/m²; 20°C; AM 1.5; wind 1 m/s
NOCT: 48°C (nominal operating cell temperature)

Additional electrical data		
Reduction of STC efficiency from 1000 W/m ² to 200 W/m ²	[%] rel.	<4
Classification range (positive classification)	[W]	0/+4.99

Loads		
Max. module pressure load	[Pa]	5400
Max. module suction load	[Pa]	5400
Max. system voltage	[V _{DC}]	1000
Reverse current load I_R	[A]	15

Mechanical load acc. to IEC/EN 61215

Temperature coefficients			
Temperature coefficient I_{SC}	$\alpha(I_{SC})$	[%/k]	+0.04
Temperature coefficient V_{OC}	$\beta(V_{OC})$	[%/k]	-0.31
Temperature coefficient P_{MPP}	$\gamma(P_{MPP})$	[%/k]	-0.43

Basic modules data		
Length x width x height	[mm]	1660 x 990 x 35 /1640 x 992 x 38
Weight	[kg]	19
Number of cells		60
Cell size	[mm]	156 x 156
Cell material		Polycrystalline Si
Front sheet		Solar glass (TSG)
Back sheet		Polymer sheet
Frame material		Al alloy

Basic data junction box		
Length x width x height	[mm]	148 x 123 x 28
IP class		IP65
Cable length	[mm]	1200 (+), 800 (-) /1000 (+), 1000 (-)
Connectors		PV-JM601
Bypass diodes		3

Measurement tolerance of P_{MPP} under STC $\pm 3\%$. Accuracy of other electrical values $\pm 10\%$.

