

Solar Modules

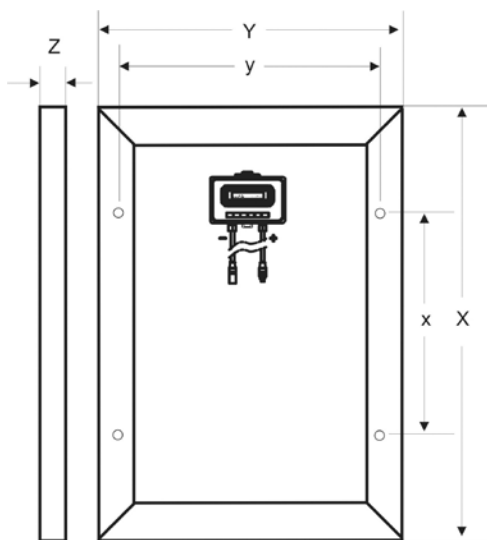
Sun Peak SPR

310054 – 310059, 310078, 310140 • 06/2014

Phaesun's Solar Modules Sun Peak monocrystalline modules has multiple advantages. These modules are made with back-contact monocrystalline solar cells which are aesthetically pleasing in appearance. The cells have a unique structure, different from conventional cells, they yield average conversion efficiencies up to 20%.

Product Features

- Photovoltaic modules made with unique back connected cells
- Cells with high conversion efficiency up to 20%
- Manufactured in ISO9001 certified factory
- Design to charge 12 to 48 V batteries for off-grid remote systems
- Made with high quality materials which qualifies high reliability of modules



Sun Peak SPR 30



Sun Peak SPR 85S



Sun Peak SPR 100

Find technical data on the next page.

Technical Data	Sun Peak SPR 30	Sun Peak SPR 60	Sun Peak SPR 85	Sun Peak SPR 85S
Electrical Parameters				
Systemvoltage [VDC]	12	12	12	12
Max Power (Pm) [Wp]	30	60	85	85
Voltage at Max Power (Vmp) [V]	17,5	17,5	15,9	16,8
Current at Max Power (Imp) [A]	1,68	3,43	5,34	5,06
Open Circuit Voltage (Voc) [V]	21,0	21,0	19,0	20,3
Short Circuit Current (Isc) [A]	1,88	3,84	5,98	5,67
Cell Efficiency	19,3%	19,8%	19,6%	18,9%
Module Efficiency	14,2%	15,3%	16,0%	15,7%
Max Power Tolerance	±5%	+10% / -5%	+5% / -0%	+5% / -0%
Nominal Operating Cell Temp [°C]	46 ± 2			
Max System Voltage [V]	70			
Mechanical Parameters				
Cells Type and Number	33 Mono. BackContact	64 Mono. BackContact	30 Mono. BackContact	30 Mono. BackContact
Frame	Scratch Resistant Anodized Aluminum with Twin – Wall Profile			
Junction Box	IP65			
Cable Length Connector	4 mm ² 1000 mm Standard3 connector			
Dimensions (X x Y x Z) [mm]	510 x 415 x 35	734 x 535 x 35	795 x 669 x 35	1.302 x 416 x 35
Mounting Holes Pitch x/y [mm]	356/387	480/507	480/641	643/388
Weight [kg]	3,0	5,8	7,0	7,5
Temperature Coefficients				
Power	-0,38%			
Open Circuit Voltage (Voc)	-0,29%			
Short Circuit Current (Isc)	0,05%			
Art.-No.	310054	310055	310056	310057

Technical Data	Sun Peak SPR 100	Sun Peak SPR 100-46	Sun Peak SPR 130	Sun Peak SPR 130-24
Electrical Parameters				
Systemvoltage [VDC]	12	12	12	24
Max Power (Pm) [Wp]	100	100	130	130
Voltage at Max Power (Vmp) [V]	18,0	18,0	19,6	39,4
Current at Max Power (Imp) [A]	5,56	5,56	6,64	3,3
Open Circuit Voltage (Voc) [V]	21,6	21,6	23,5	48,2
Short Circuit Current (Isc) [A]	6,15	6,15	7,44	3,75
Cell Efficiency	21,4%	21,4%	18,9%	18,4%
Module Efficiency	18,3%	18,3%	15,1%	15,1%
Max Power Tolerance	+10% / -5%	+10% / -5%	+5% / -0%	+5% / -0%
Nominal Operating Cell Temp [°C]	46 ± 2			
Max System Voltage [V]	70			
Mechanical Parameters				
Cells Type and Number	33 Mono. BackContact	33 Mono. BackContact	144 Mono. BackContact	144 Mono. BackContact
Frame	Scratch Resistant Anodized Aluminum with Twin – Wall Profile			
Junction Box	IP65			
Cable Length Connector	4 mm ² 1000 mm Standard3 connector			
Dimensions (X x Y x Z) [mm]	1.037 x 527 x 35	1.037 x 527 x 46	1.082 x 796 x 35	1.082 x 796 x 35
Mounting Holes Pitch x/y [mm]	643/499	643/4/83	540/768	643/768
Weight [kg]	7,4	8,2	12,3	12,3
Temperature Coefficients				
Power	-0,38%			
Open Circuit Voltage (Voc)	-0,29%			
Short Circuit Current (Isc)	0,05%			
Art.-No.	310058	310140	310059	310078