Import Sun Pv™

THE POWER OF RISING VALUE

risen solar technology



MONO CRYSTALLINE MODULE
36x5"/60-100W

Qualified, IEC61215
Qualified, IEC61730



Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP60S-M	60W	+-3%	16.80	3.57	21.00	3.86
SYP75S-M	75W	+-3%	17.20	4.36	21.60	4.87
SYP80S-M	80W	+-3%	17.20	4.65	21.60	5.00
SYP85S-M	85W	+-3%	17.60	4.83	21.90	5.14
SYP90S-M	90W	+-3%	18.00	5.00	22.40	5.30
SYP95S-M	95W	+-3%	19.48	4.87	22.14	5.58
SYP100S-M	100W	+-3%	19.64	5.62	22.75	5.62

Valued at STC (AM 1.5, 1000W/m², 25℃)

Temperature Coefficients

Temperature Coefficient of VOC(β)	-0.37%/℃
Temperature Coefficient of ISC(α)	+0.02%/℃
Temperature Coefficient of Pmax	-0.44%/℃
Nominal Operating Cell Temperature (NOCT)	45±2℃

Permissible Operating Conditions

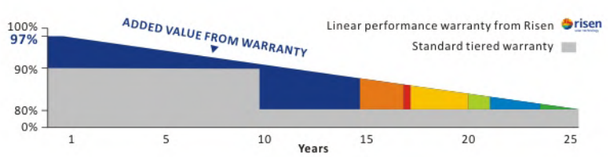
Maximum system voltage	1000VDC
Operating temperature	-40~+85℃
Snow load	Max 5400 Pa
Wind load	Max 120km/h

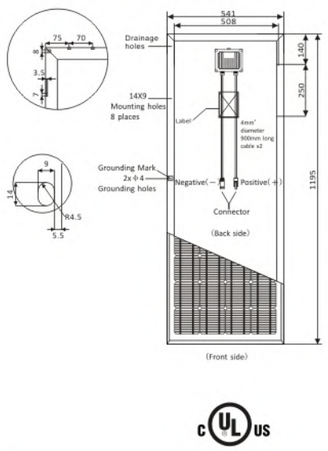
Mechanical Characteristics

Number of mono crystalline solar cell	36pcsx5"
Aluminum frame, dimension	1195x541x30mm
Weight	8kg
Junction box	IP65
Module	IP65
Tolerance of Rating	-3%~+3%

Warranty

10 years with 100% product warranty
12 years 90% rated power output
25 years 82% rated power output





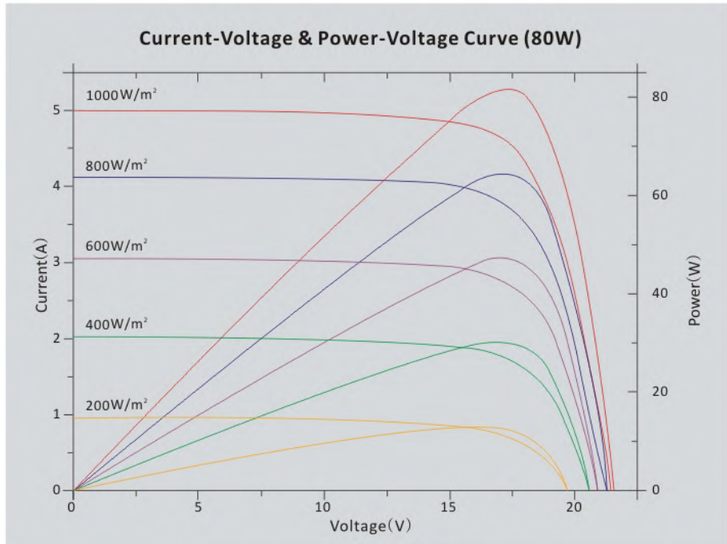
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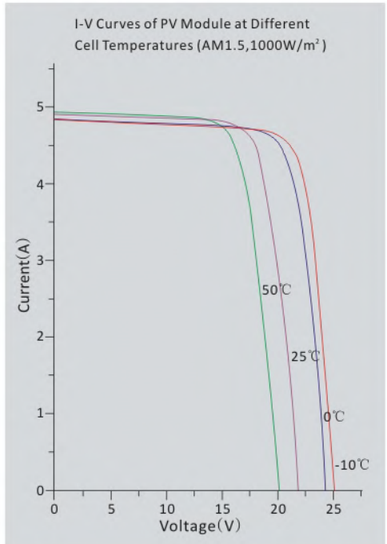
60-100 Watt
MONO-CRYSTALLINE SOLAR PANEL

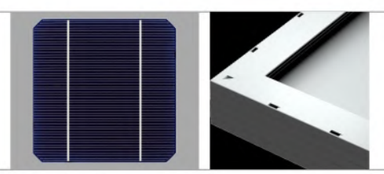
Excellent Quality
>Automatic production and testing processes;
>More than 18 IEC tests program in State-Level PV Laboratory of Risen;
>Third party liability and quality insurance;
>ISO9001,ISO14001 and OHSAS18001 management system.

Easy for installation
>Low weight, convenient format;
>Horizontal and Vertical installation applicable;
>Compatible with all standard rooftop and ground mounting systems.

Maximum Yield
>Photon test with TOP performance;
>Averagely,installed projects actual power yield is 5% higher than theoretical yield.









◎1. Tempered Glass
◎2. EVA (Ethylene Vinyl Acetate)
◎3.Solar Cells
◎4. EVA (Ethylene Vinyl Acetate)
◎5. Backsheet

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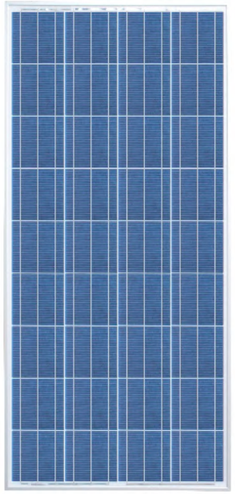
risen solar technology

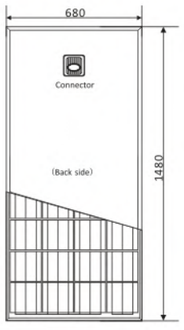


90-150 Watt

POLY CRYSTALLINE MODULE 36x6"

CE





Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP90S	90W	+-3%	16.8	5.36	21.2	7.26
SYP95S	95W	+-3%	16.8	5.66	21.2	7.33
SYP100S	100W	+-3%	16.9	5.92	21.3	7.41
SYP105S	105W	+-3%	17.0	6.18	21.4	7.48
SYP110S	110W	+-3%	17.0	6.48	21.4	7.52
SYP115S	115W	+-3%	17.0	6.78	21.4	7.58
SYP120S	120W	+-3%	17.2	6.98	21.6	7.68
SYP125S	125W	+-3%	17.4	7.21	21.7	7.79
SYP130S	130W	+-3%	17.6	7.41	21.8	8.03
SYP135S	135W	+-3%	17.8	7.58	22.0	8.17
SYP140S	140W	+-3%	18.1	7.72	22.1	8.32
SYP145S	145W	+-3%	19.3	7.93	22.2	8.55
SYP150S	150W	+-3%	19.4	8.17	22.3	8.65

Valued at STC (AM 1.5, 1000W/m², 25℃)

Temperature Coefficients

Temperature Coefficient of VOC(β)	-0.39%/℃
Temperature Coefficient of ISC(α)	+0.033%/℃
Temperature Coefficient of Pmax	-0.44%/℃
Nominal Operating Cell Temperature (NOCT)	45±2℃

Permissible Operating Conditions

Maximum system voltage	1000VDC
Operating temperature	-40~+85℃
Snow load	Max 5400 Pa
Wind load	Max 120km/h

Mechanical Characteristics

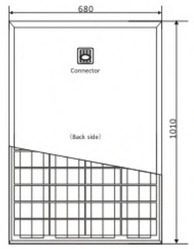
Number of ploy crystalline solar cell	36pcsx6"
Aluminum frame, dimension	1480x680x35mm
Weight	12kg
Junction box	IP65
Module	IP65
Tolerance of Rating	-3%~+3%

70-85 Watt

POLY CRYSTALLINE MODULE 36x(156mmx104mm)

CE





Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP70S	70W	+-3%	16.9	4.16	21.3	4.91
SYP75S	75W	+-3%	17.0	4.43	21.4	4.97
SYP80S	80W	+-3%	17.4	4.61	21.6	5.16
SYP85S	85W	+-3%	17.6	4.84	21.7	5.24

Valued at STC (AM 1.5, 1000W/m², 25℃)

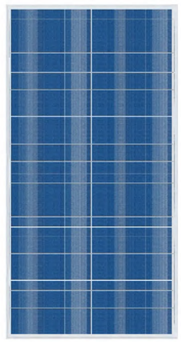
Specifications

-Number of poly crystalline solar cell 36pcsx(156mmX104mm)
-Aluminum frame, dimension 1010x680x30mm
-Maximum system voltage 1000VDC
-Weight 7.8kg
-Temperature coefficient of VOC(β) =-0.39%/℃
-Temperature coefficient of ISC(α)=+0.033%/℃
-Temperature coefficient of Pmax=-0.44%/℃
-Bypass diodes to reduce loss in partial shadow
-IP65
-CE Standard
-Performance test data for each module

50-65 Watt

POLY CRYSTALLINE MODULE 36x(156mmx78mm)

CE





Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP50S	50W	+-3%	16.9	2.99	20.88	3.65
SYP55S	55W	+-3%	17.0	3.24	21.2	3.71
SYP60S	60W	+-3%	17.3	3.47	21.6	3.85
SYP65S	65W	+-3%	17.6	3.70	21.8	4.02

Valued at STC (AM 1.5, 1000W/m², 25℃)

Specifications

-Number of poly crystalline solar cell 36pcsx(156mmX78mm)
-Aluminum frame, dimension 992x541x30mm
-Maximum system voltage 1000VDC
-Weight 6.2kg
-Temperature coefficient of VOC(β) =-0.39%/℃
-Temperature coefficient of ISC(α)=+0.033%/℃
-Temperature coefficient of Pmax=-0.44%/℃
-Bypass diodes to reduce loss in partial shadow
-IP65
-CE Standard
-Performance test data for each module

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30-45 Watt

POLY CRYSTALLINE MODULE 36x(156mmx52mm)

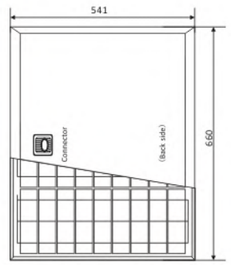
CE

Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP30S	30W	+-3%	16.8	1.86	21.3	2.34
SYP35S	35W	+-3%	17.0	2.07	21.4	2.49
SYP40S	40W	+-3%	17.4	2.31	21.6	2.57
SYP45S	45W	+-3%	17.8	2.53	21.9	2.73

Valued at STC (AM 1.5, 1000W/m², 25℃)





Specifications

-Number of poly crystalline solar cell 36pcsx(156mmX52mm)
-Aluminum frame, dimension 660x541x30mm
-Maximum system voltage 1000VDC
-Weight 3.5kg
-Temperature coefficient of VOC(β) =-0.39%/℃
-Temperature coefficient of ISC(α)=+0.033%/℃
-Temperature coefficient of Pmax=-0.44%/℃
-Bypass diodes to reduce loss in partial shadow
-IP65
-CE Standard
-Performance test data for each module

20-25 Watt

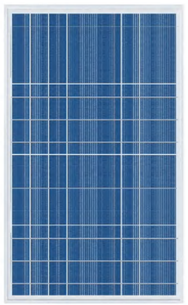
POLY CRYSTALLINE MODULE 36x(156mmx39mm)

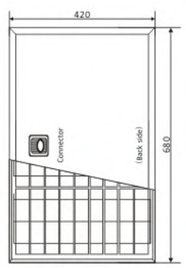
CE

Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP20S	20W	+-3%	16.8	1.21	21.5	1.37
SYP25S	25W	+-3%	17.0	1.49	21.5	1.81

Valued at STC (AM 1.5, 1000W/m², 25℃)





Specifications

-Number of poly crystalline solar cell 36pcsx(156mmX39mm)
-Aluminum frame, dimension 680x420x17mm
-Maximum system voltage 1000VDC
-Weight 2.2kg
-Temperature coefficient of VOC(β) =-0.39%/℃
-Temperature coefficient of ISC(α)=+0.033%/℃
-Temperature coefficient of Pmax=-0.44%/℃
-Bypass diodes to reduce loss in partial shadow
-IP65
-CE Standard
-Performance test data for each module

10-15 Watt

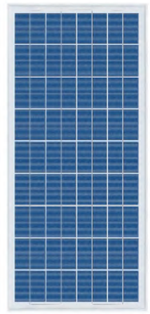
POLY CRYSTALLINE MODULE 36x(52mmx52mm)

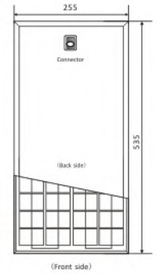
CE

Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP10S	10W	+-3%	16. 8	0.65	21.3	0.80
SYP12S	12W	+-3%	17.0	0.71	21.7	0.83
SYP15S	15W	+-3%	17.8	0.85	21.9	0.91

Valued at STC (AM 1.5, 1000W/m², 25℃)





Specifications

-Number of poly crystalline solar cell 36pcsx(52mmX52mm)
-Aluminum frame, dimension 535x255x17mm
-Maximum system voltage 1000VDC
-Weight 1.2kg
-Temperature coefficient of VOC(β) =-0.39%/℃
-Temperature coefficient of ISC(α)=+0.033%/℃
-Temperature coefficient of Pmax=-0.44%/℃
-Bypass diodes to reduce loss in partial shadow
-IP65
-CE Standard
-Performance test data for each module

5-8 Watt

POLY CRYSTALLINE MODULE 36x(52mmx26mm)

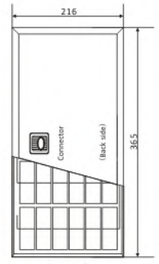
CE

Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP5S	5W	+-3%	16.8	0.31	21.5	0.42
SYP6S	6W	+-3%	16.8	0.36	21.5	0.44
SYP7S	7W	+-3%	17.4	0.42	21.7	0.46
SYP8S	8W	+-3%	18.2	0.48	21.9	0.48

Valued at STC (AM 1.5, 1000W/m², 25℃)





Specifications

-Number of poly crystalline solar cell 36pcsx(52mmX26mm)
-Aluminum frame, dimension 365x216x17mm
-Maximum system voltage 1000VDC
-Weight 0.8kg
-Temperature coefficient of VOC(β) =-0.39%/℃
-Temperature coefficient of ISC(α)=+0.033%/℃
-Temperature coefficient of Pmax=-0.44%/℃
-Bypass diodes to reduce loss in partial shadow
-IP65
-CE Standard
-Performance test data for each module

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100 Watt

MONO CRYSTALLINE MODULE 44x5"

CE

Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP100S-M	100W	+-3%	21.90	4.58	26.50	5.10

Valued at STC (AM 1.5, 1000W/m², 25℃)

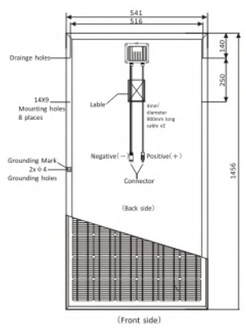


Temperature Coefficients

Temperature Coefficient of VOC(β)	-0.37%/℃
Temperature Coefficient of ISC(α)	+0.02%/℃
Temperature Coefficient of Pmax	-0.50%/℃
Nominal Operating Cell Temperature (NOCT)	48±2℃

Permissible Operating Conditions

Maximum system voltage	1000VDC
Operating temperature	-40~+85℃
Snow load	Max 5400 Pa
Wind load	Max 120km/h



Mechanical Characteristics

Number of mono crystalline solar cell	44pcsx5"
Aluminum frame, dimension	1456x541x30mm
Weight	10.5kg
Junction box	IP65
Module	IP65
Tolerance of Rating	-3%~+3%

50 Watt

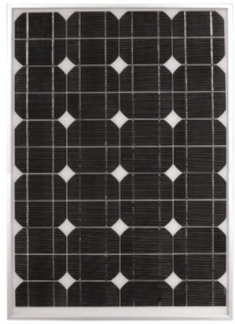
MONO CRYSTALLINE MODULE 44x(125mmx62.5mm)

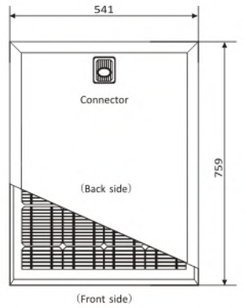
CE

Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP50S-M	50W	+-3%	22.00	2.27	26.53	2.53

Valued at STC (AM 1.5, 1000W/m², 25℃)





Specifications

-Number of mono crystalline solar cell 44pcsx(125mmX62.5mm)
-Aluminum frame, dimension 759x541x30mm
-Maximum system voltage 600VDC
-Weight 6kg
-Temperature coefficient of VOC(β) =-0.37%/℃
-Temperature coefficient of ISC(α)=+0.02%/℃
-Temperature coefficient of Pmax=-0.50%/℃
-IP65
-CE Standard
-Performance test data for each module
-Positive power tolerance up to +3%

35-45 Watt

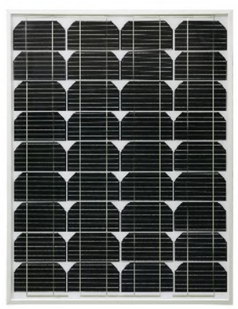
MONO CRYSTALLINE MODULE 36x(125mmx62.5mm)

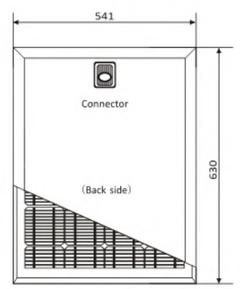
CE

Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP35S-M	35W	+-3%	17.20	2.04	21.60	2.12
SYP40S-M	40W	+-3%	17.60	2.27	21.80	2.48
SYP45S-M	45W	+-3%	17.60	2.57	21.90	2.66

Valued at STC (AM 1.5, 1000W/m², 25℃)





Specifications

-Number of mono crystalline solar cell 36pcsx(125mmX62.5mm)
-Aluminum frame, dimension 630x541x30mm
-Maximum system voltage 600VDC
-Weight 5.5kg
-Temperature coefficient of VOC(β) =-0.37%/℃
-Temperature coefficient of ISC(α)=+0.02%/℃
-Temperature coefficient of Pmax=-0.50%/℃
-IP65
-CE Standard
-Performance test data for each module
-Positive power tolerance up to +3%

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risen solar technology



100 Watt

MONO CRYSTALLINE MODULE 44x5"

CE

Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP100S-M	100W	+-3%	21.90	4.58	26.50	5.10

Valued at STC (AM 1.5, 1000W/m², 25℃)

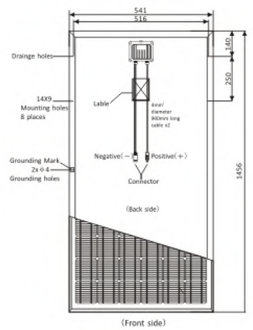


Temperature Coefficients

Temperature Coefficient of VOC(β)	-0.37%/℃
Temperature Coefficient of ISC(α)	+0.02%/℃
Temperature Coefficient of Pmax	-0.50%/℃
Nominal Operating Cell Temperature (NOCT)	48±2℃

Permissible Operating Conditions

Maximum system voltage	1000VDC
Operating temperature	-40~+85℃
Snow load	Max 5400 Pa
Wind load	Max 120km/h



Mechanical Characteristics

Number of mono crystalline solar cell	44pcsx5"
Aluminum frame, dimension	1456x541x30mm
Weight	10.5kg
Junction box	IP65
Module	IP65
Tolerance of Rating	-3%~+3%

50 Watt

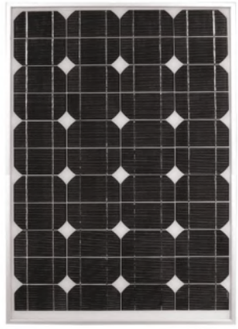
MONO CRYSTALLINE MODULE 44x(125mmx62.5mm)

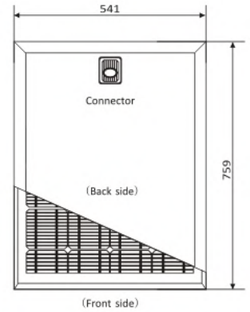
CE

Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP50S-M	50W	+-3%	22.00	2.27	26.53	2.53

Valued at STC (AM 1.5, 1000W/m², 25℃)





Specifications

-Number of mono crystalline solar cell 44pcsx(125mmX62.5mm)
-Aluminum frame, dimension 759x541x30mm
-Maximum system voltage 600VDC
-Weight 6kg
-Temperature coefficient of VOC(β) =-0.37%/℃
-Temperature coefficient of ISC(α)=+0.02%/℃
-Temperature coefficient of Pmax=-0.50%/℃
-IP65
-CE Standard
-Performance test data for each module
-Positive power tolerance up to +3%

35-45 Watt

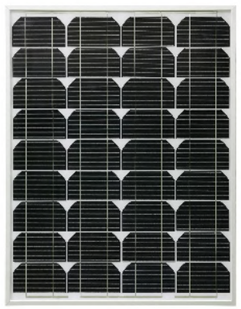
MONO CRYSTALLINE MODULE 36x(125mmx62.5mm)

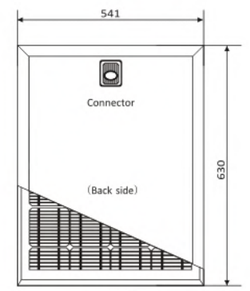
CE

Electrical Characteristics

Model	Pm(Wp)	Tolerance	Vm(V)	Im(A)	Voc(V)	Isc(A)
SYP35S-M	35W	+-3%	17.20	2.04	21.60	2.12
SYP40S-M	40W	+-3%	17.60	2.27	21.80	2.48
SYP45S-M	45W	+-3%	17.60	2.57	21.90	2.66

Valued at STC (AM 1.5, 1000W/m², 25℃)





Specifications

-Number of mono crystalline solar cell 36pcsx(125mmX62.5mm)
-Aluminum frame, dimension 630x541x30mm
-Maximum system voltage 600VDC
-Weight 5.5kg
-Temperature coefficient of VOC(β) =-0.37%/℃
-Temperature coefficient of ISC(α)=+0.02%/℃
-Temperature coefficient of Pmax=-0.50%/℃
-IP65
-CE Standard
-Performance test data for each module
-Positive power tolerance up to +3%