

## Preface

In order to provide Solarfun PV Module's accurate parameters for external promotion, the Module Technology Department collect and compile the latest version of Solarfun PV module specifications in this file. The specifications of 12 module types are included.

Related PV module models are listed below: SF080-18(Mono), SF080-18(Poly), SF120-18(Mono), SF120-18(Poly), SF160-24(Mono), SF160-24(Poly), SF190-27(Mono), SF190-27(Poly), SF220-30(Mono), SF220-30(Poly), SF260-36(Mono) and SF260-36(Poly).

The specifications of Solarfun PV module would be updated from time to time by the Module Technology Department, and the related information in external promotion should be based on the latest version of this file.

If you have any question or good advice in using this file, please feel free to contact with us.

Version 5.0

Module Technology Department  
In July, 2008

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**SF080-18-1M  
SF080-18- M (UL) —Module Specifications(Mono)**

**1. Electrical characteristics**

**1.1 Electrical characteristics at STC**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at STC (1000W/m<sup>2</sup>, 25±2°C, AM 1.5);

All electrical specifications are +/-5%.

Maximum Power ( $P_{max}$ )	70W	75W	80W	85W	90W
Open Circuit Voltage ( $V_{oc}$ )	21.6V	21.7V	21.8V	22.4V	22.5V
Short Circuit Current ( $I_{sc}$ )	4.70A	4.88A	5.00A	5.12A	5.20A
Maximum Power Voltage ( $V_{mp}$ )	17.4V	17.6V	17.8V	17.9V	18.0V
Maximum Power Current ( $I_{mp}$ )	4.02A	4.26A	4.50A	4.74A	5.00A
Module Efficiency (%)	10.5	11.2	11.9	12.7	13.4
Cell Efficiency (%)	13.2	14.1	15.0	16.0	17.0

**1.2 Electrical characteristics at 1000W/m<sup>2</sup>, 45±3°C, AM 1.5**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at 1000W/m<sup>2</sup>, 45 ±3°C, AM 1.5;

All electrical specifications are +/-5%.

Maximum Power ( $P_{max}$ )	64W	69W	74W	78W	83W
Open Circuit Voltage ( $V_{oc}$ )	20.0V	20.0V	20.1V	20.6V	21.0V
Short Circuit Current ( $I_{sc}$ )	4.72A	4.90A	5.02A	5.15A	5.23A
Maximum Power Voltage ( $V_{mp}$ )	16.0V	16.2V	16.4V	16.5V	16.6V
Maximum Power Current ( $I_{mp}$ )	4.00A	4.27A	4.52A	4.73A	5.02A
Module Efficiency (%)	9.6	10.3	11.1	11.7	12.4
Cell Efficiency (%)	13.2	14.1	15.0	16.0	17.0

**1.3 Temperature Coefficients**

Temperature Coefficients of P	-0.4%/°C
Temperature Coefficients of V	-0.38%/°C
Temperature Coefficients of I	+0.04%/°C

**1.4 Maximum System Voltage**

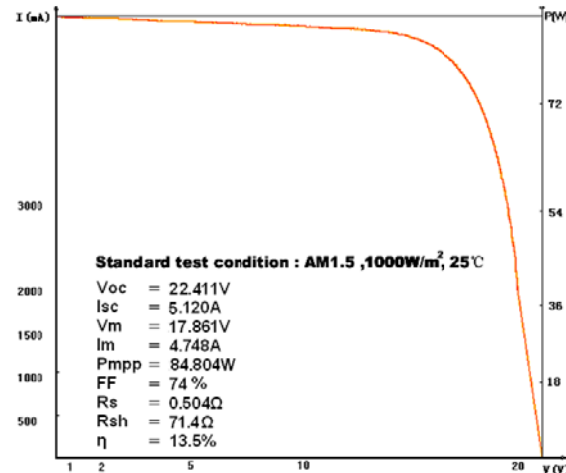
Maximum System Voltage	1000V
Maximum System Voltage (UL)	600V

**2. Mechanical characteristics**

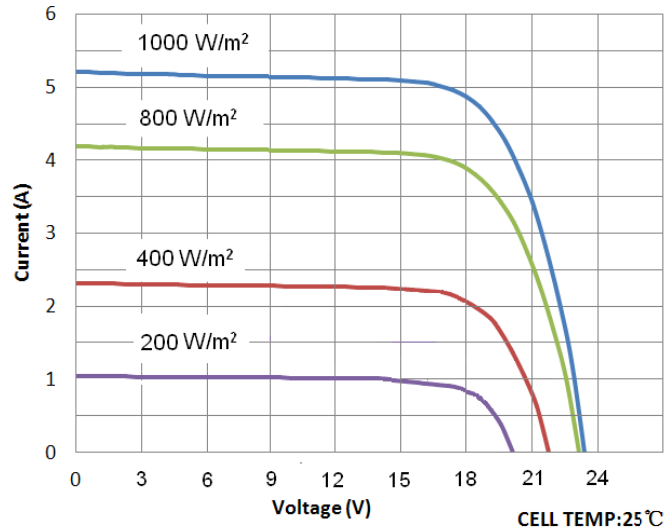
Cell Technology	125mm × 125mm [4.92in × 4.92in] Mono-Si
Brand Name of Solar Cells	Solarfun
Number of Cells (Pcs)	36 (4 × 9)
Dimensions	1210mm × 554mm × 45mm [47.64in × 21.8in × 1.77in]
Output Cables	dia.: 4mm; length: 900mm [35.4in]
Weight	8kg [17.6lb]
Frame	aluminum-alloy
Front / Encapsulant / Back	tempered glass / EVA / backsheet
Packing Options	1) 4Pcs/ carton, 180 cartons/40 FCL =720/container 2) 10Pcs/ wooden box

**3. I-V characteristic curve**

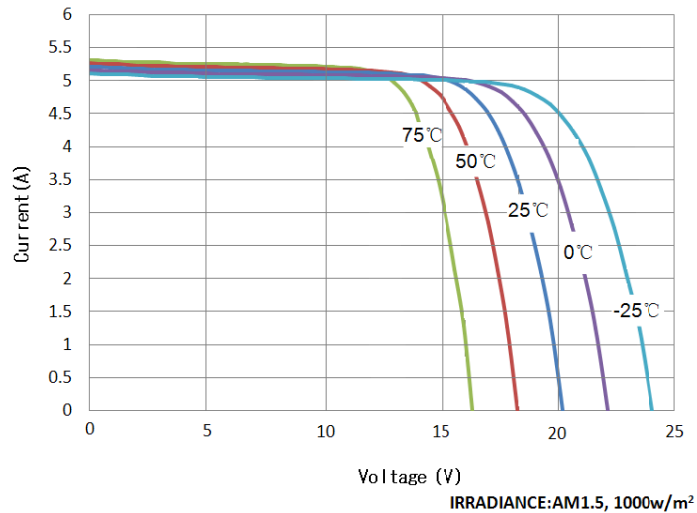
**3.1 I-V characteristic curve of module at STC**



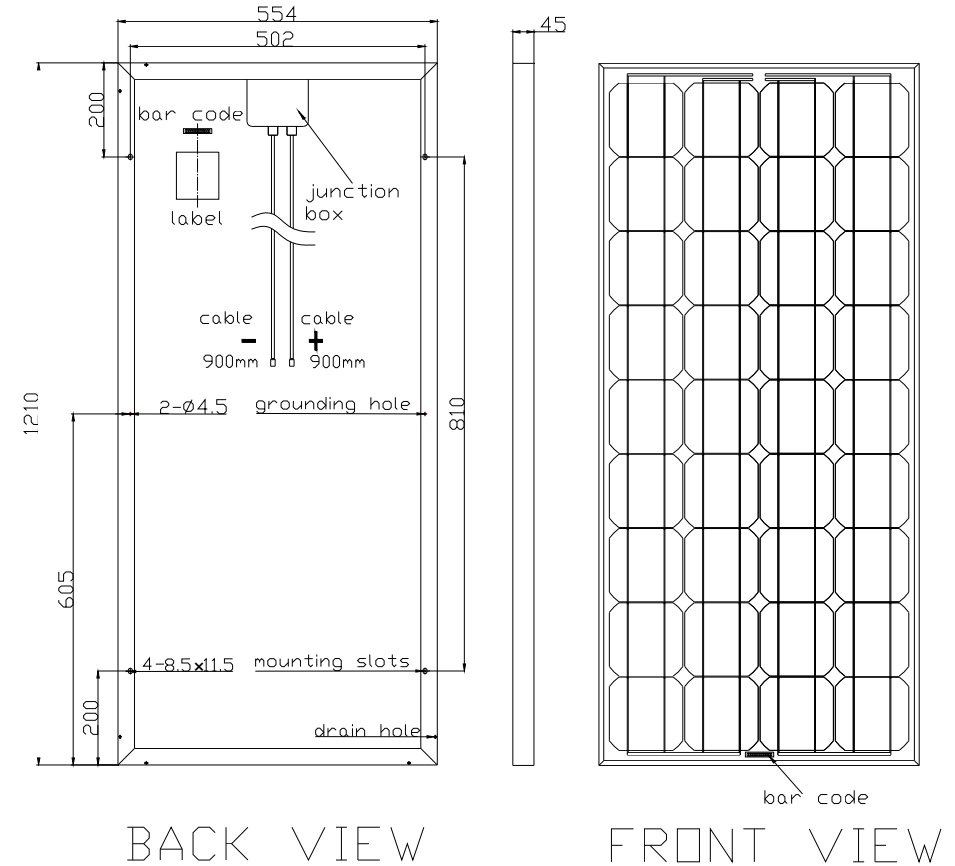
**3.2 I-V characteristics curve at various irradiance levels**



**3.3 I-V characteristics curve at various cell temperatures**



**4. Basic Dimensions**



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**SF080-18-1P  
SF080-18-P (UL) —Module Specifications (Poly)**

**1. Electrical characteristics**

**1.1 Electrical characteristics at STC**

*P<sub>max</sub>, V<sub>oc</sub>, I<sub>sc</sub>, V<sub>mp</sub> and I<sub>mp</sub> at STC (1000W/m<sup>2</sup>, 25±2°C, AM 1.5);  
All electrical specifications are +/-5%.*

Maximum Power (P <sub>max</sub> )	70W	75W	80W	85W	90W
Open Circuit Voltage (V <sub>oc</sub> )	21.4V	21.5V	21.7V	21.8V	22.0V
Short Circuit Current (I <sub>sc</sub> )	4.75A	4.90A	5.05A	5.15A	5.25A
Maximum Power Voltage (V <sub>mp</sub> )	17.3V	17.5V	17.6V	17.8V	18.0V
Maximum Power Current (I <sub>mp</sub> )	4.05A	4.30A	4.55A	4.78A	5.00A
Module Efficiency (%)	10.5	11.2	11.9	12.7	13.4
Cell Efficiency (%)	12.5	13.4	14.4	15.2	16.1

**1.2 Electrical characteristics at 1000W/m<sup>2</sup>, 45±3°C, AM 1.5**

*P<sub>max</sub>, V<sub>oc</sub>, I<sub>sc</sub>, V<sub>mp</sub> and I<sub>mp</sub> at 1000W/m<sup>2</sup>, 45 ±3°C, AM 1.5;  
All electrical specifications are +/-5%.*

Maximum Power (P <sub>max</sub> )	64W	69W	74W	78W	83W
Open Circuit Voltage (V <sub>oc</sub> )	19.9V	20.0V	20.0V	20.5V	20.8V
Short Circuit Current (I <sub>sc</sub> )	4.77A	4.92A	5.08A	5.18A	5.28A
Maximum Power Voltage (V <sub>mp</sub> )	16.0V	16.1V	16.2V	16.3V	16.4V
Maximum Power Current (I <sub>mp</sub> )	4.02A	4.29A	4.57A	4.80A	5.06A
Module Efficiency (%)	9.6	10.3	11.1	11.7	12.4
Cell Efficiency (%)	12.5	13.4	14.4	15.2	16.1

**1.3 Temperature Coefficients**

Temperature Coefficients of P	-0.4%/°C
Temperature Coefficients of V	-0.38%/°C
Temperature Coefficients of I	+0.04%/°C



**1.4 Maximum System Voltage**

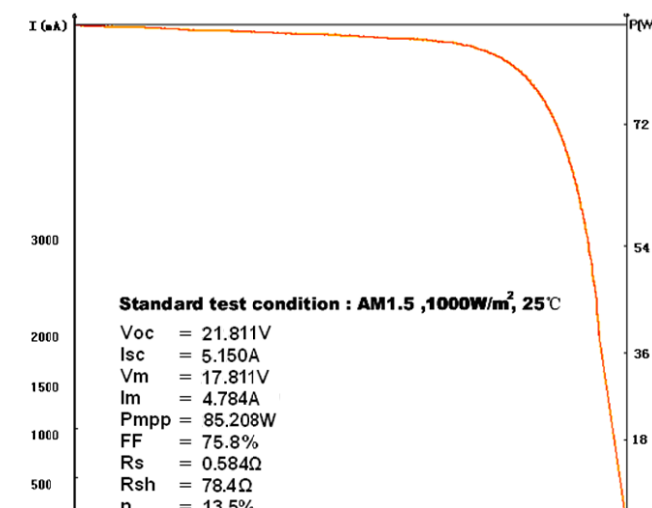
Maximum System Voltage	1000V
Maximum System Voltage (UL)	600V

**2. Mechanical characteristics**

Cell Technology	125mm × 125mm [4.92in × 4.92in] Poly-Si
Brand Name of Solar Cells	Solarfun
Number of Cells (Pcs)	36 (4 × 9)
Dimensions	1210mm × 554mm × 45mm [47.64in × 21.8in × 1.77in]
Output Cables	dia.: 4mm; length: 900mm [35.4in]
Weight	8kg [17.6lb]
Frame	aluminum-alloy
Front / Encapsulant / Back	tempered glass / EVA / backsheet
Packing Options	1) 4Pcs/ carton, 180 cartons/40 FCL =720/container 2) 10Pcs/ wooden box

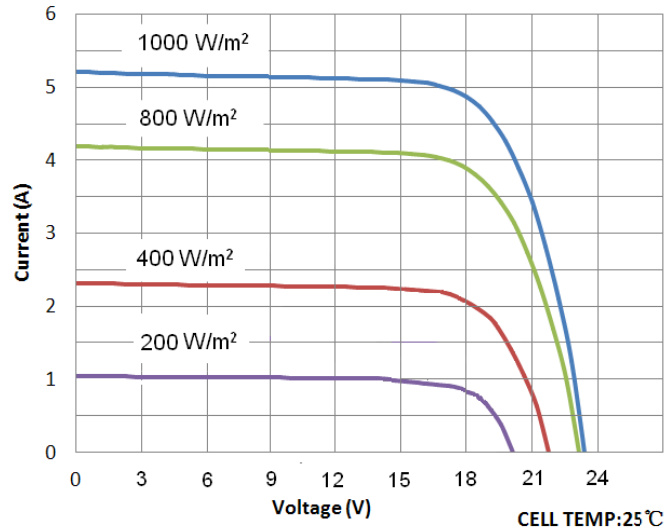
**3. I-V characteristic curve**

**3.1 I-V characteristic curve of module at STC**

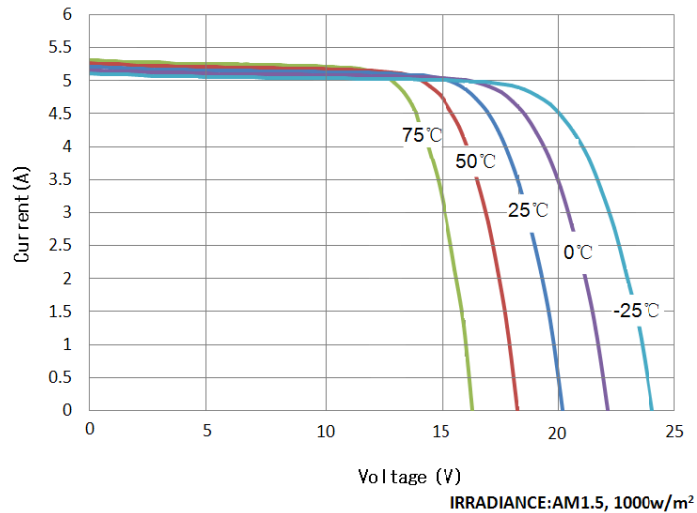




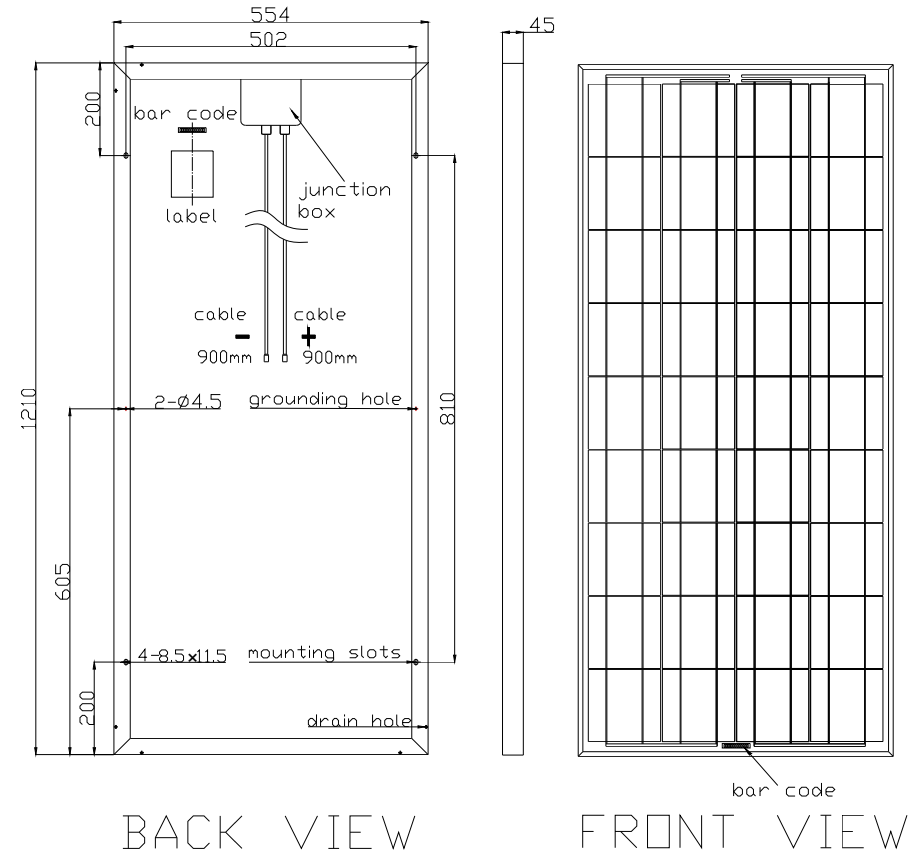
3.2 I-V characteristics curve at various irradiance levels



3.3 I-V characteristics curve at various cell temperatures (75°C, 50°C, 25°C, 0°C, -25°C) at 1000 W/m² irradiance.



4. Basic Dimensions



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**SF120-18-1M  
SF120-18-M (UL) —Module Specifications (Mono)**

**1. Electrical characteristics**

**1.1 Electrical characteristics at STC**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at STC (1000W/m<sup>2</sup>, 25±2°C, AM 1.5);  
All electrical specifications are +/-5%.

Maximum Power ( $P_{max}$ )	110W	115W	120W	125W	130W
Open Circuit Voltage ( $V_{oc}$ )	22.1V	22.2V	22.2V	22.3V	22.3V
Short Circuit Current ( $I_{sc}$ )	6.76A	7.07A	7.37A	7.68A	7.99A
Maximum Power Voltage ( $V_{mp}$ )	18.1V	18.1V	18.2V	18.3V	18.4V
Maximum Power Current ( $I_{mp}$ )	6.10A	6.34A	6.59A	6.83A	7.08A
Module Efficiency (%)	10.9	11.4	11.8	12.4	12.9
Cell Efficiency (%)	13.0	13.4	14.0	14.5	15.1

**1.2 Electrical characteristics at 1000W/m<sup>2</sup>, 45±3°C, AM 1.5**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at 1000W/m<sup>2</sup>, 45 ±3°C, AM 1.5;  
All electrical specifications are +/-5%.

Maximum Power ( $P_{max}$ )	101W	106W	111W	115W	120W
Open Circuit Voltage ( $V_{oc}$ )	20.4V	20.5V	20.5V	20.6V	20.6V
Short Circuit Current ( $I_{sc}$ )	6.77A	7.08A	7.40A	7.70A	8.00A
Maximum Power Voltage ( $V_{mp}$ )	16.7V	16.7V	16.8V	16.9V	17.0V
Maximum Power Current ( $I_{mp}$ )	6.08A	6.35A	6.61A	6.84A	7.10A
Module Efficiency (%)	10.0	10.5	11.0	11.4	11.8
Cell Efficiency (%)	13.0	13.4	14.0	14.5	15.1

**1.3 Temperature Coefficients**

Temperature Coefficients of P	-0.4%/°C
Temperature Coefficients of V	-0.38%/°C
Temperature Coefficients of I	+0.04%/°C



**1.4 Maximum System Voltage**

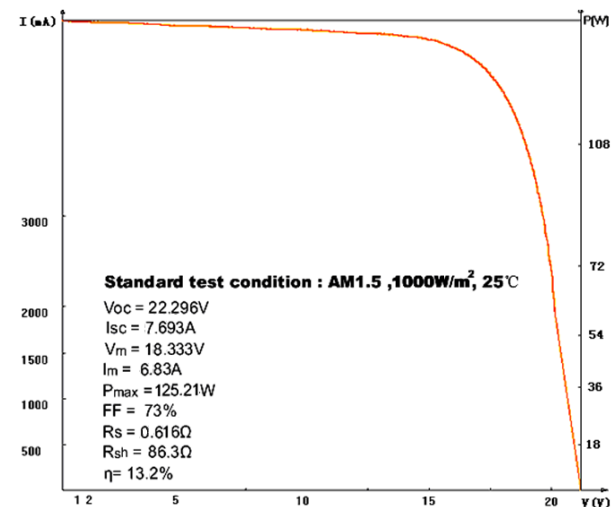
Maximum System Voltage	1000V
Maximum System Voltage (UL)	600V

**2. Mechanical characteristics**

Cell Technology	156mm × 156mm [6.14in × 6.14in]	Mono-Si
Brand Name of Solar Cells	Solarfun	
Number of Cells (Pcs)	36 (4 × 9)	
Dimensions	1494mm × 678mm × 45mm [58.8in × 26.7in × 1.77in]	
Output Cables	dia.: 4mm; length: 900mm [35.4in]	
Weight	12kg [26.4lb]	
Frame	Aluminum-alloy	
Front / Encapsulant / Back	tempered glass / EVA / backsheet	
Packing Options	4Pcs/ carton , 150 cartons/ 40 FCL =600/container 10Pcs/ wooden box	

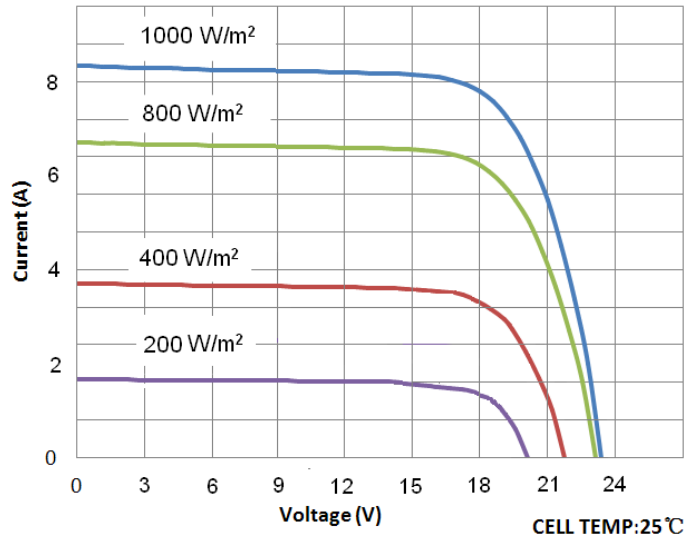
**3. I-V characteristic curve**

**3.1 I-V characteristic curve of module at STC**

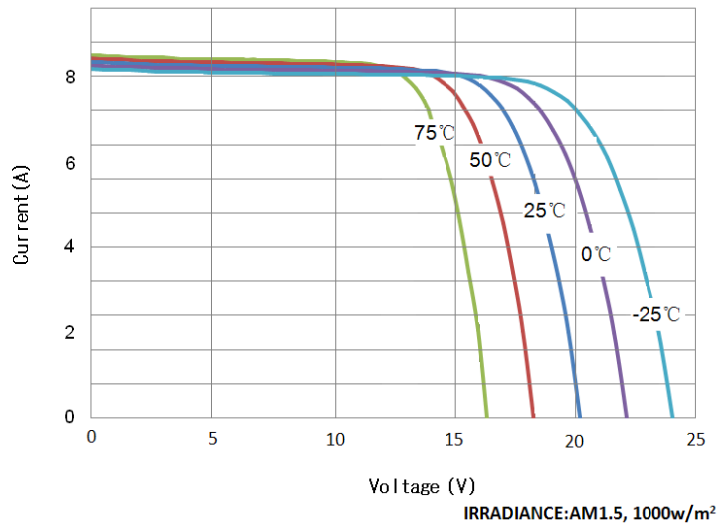




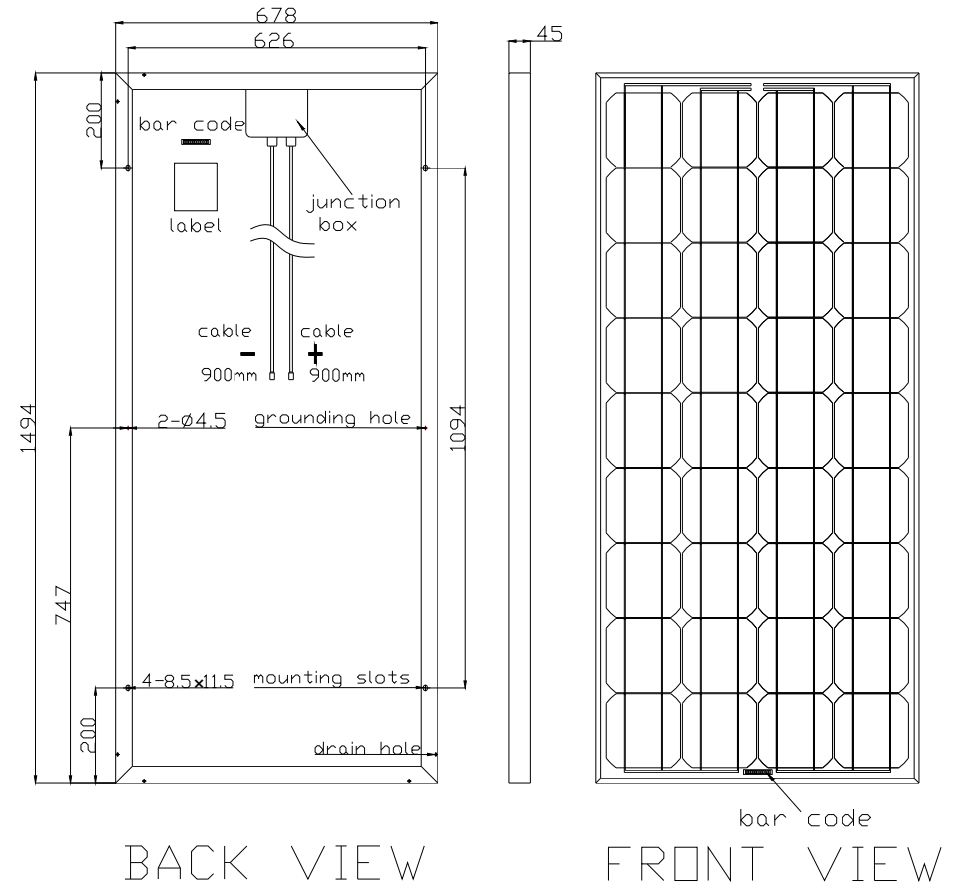
3.2 I-V characteristics curve at various irradiance levels



3.3 I-V characteristics curve at various cell temperatures (75°C, 50°C, 25°C, 0°C, -25°C) at AM1.5, 1000w/m² irradiance.



4. Basic Dimensions



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**SF120-18-1P  
SF120-18-P (UL) —Module Specifications (Poly)**

**1. Electrical characteristics**

**1.1 Electrical characteristics at STC**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at STC (1000W/m<sup>2</sup>, 25±2°C, AM 1.5);  
All electrical specifications are +/-5%.

Maximum Power ( $P_{max}$ )	110W	115W	120W	125W	130W
Open Circuit Voltage ( $V_{oc}$ )	21.6V	21.8V	22.0V	22.1V	22.2V
Short Circuit Current ( $I_{sc}$ )	7.20A	7.40A	7.55A	7.70A	8.00A
Maximum Power Voltage ( $V_{mp}$ )	17.6V	17.8V	18.0V	18.1V	18.1V
Maximum Power Current ( $I_{mp}$ )	6.25A	6.46A	6.67A	6.90A	7.20A
Module Efficiency (%)	10.9	11.4	11.8	12.4	12.9
Cell Efficiency (%)	12.8	13.3	13.9	14.4	14.9

**1.2 Electrical characteristics at 1000W/m<sup>2</sup>, 45±3°C, AM 1.5**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at 1000W/m<sup>2</sup>, 45 ±3°C, AM 1.5;  
All electrical specifications are +/-5%.

Maximum Power ( $P_{max}$ )	101W	106W	111W	115W	120W
Open Circuit Voltage ( $V_{oc}$ )	20.0V	20.1V	20.3V	20.4V	20.5V
Short Circuit Current ( $I_{sc}$ )	7.21A	7.42A	7.56A	7.71A	8.02A
Maximum Power Voltage ( $V_{mp}$ )	16.2V	16.4V	16.6V	16.7V	16.7V
Maximum Power Current ( $I_{mp}$ )	6.26A	6.47A	6.70A	6.90A	7.20A
Module Efficiency (%)	10.0	10.5	11.0	11.4	11.8
Cell Efficiency (%)	12.8	13.3	13.9	14.4	14.9

**1.3 Temperature Coefficients**

Temperature Coefficients of P	-0.4%/°C
Temperature Coefficients of V	-0.38%/°C
Temperature Coefficients of I	+0.04%/°C



**1.4 Maximum System Voltage**

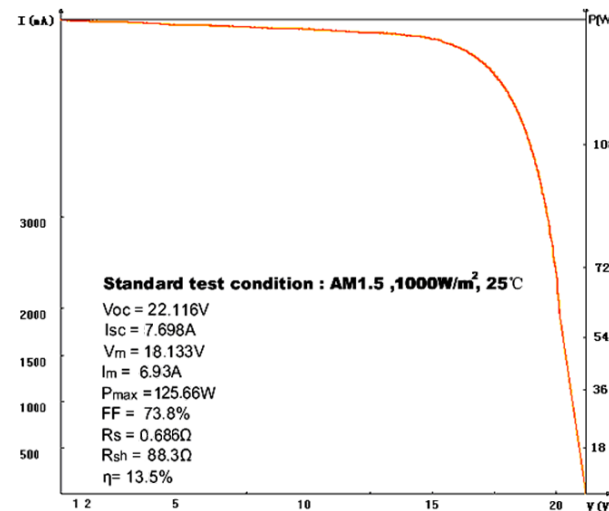
Maximum System Voltage	1000V
Maximum System Voltage (UL)	600V

**2. Mechanical characteristics**

Cell Technology	156mm × 156mm [6.14in × 6.14in]	Poly-Si
Brand Name of Solar Cells	Solarfun	
Number of Cells (Pcs)	36 (4 × 9)	
Dimensions	1494mm × 678mm × 45mm [58.8in × 26.7in × 1.77in]	
Output Cables	dia.: 4mm; length: 900mm [35.4in]	
Weight	12kg [26.4lb]	
Frame	Aluminum-alloy	
Front / Encapsulant / Back	tempered glass / EVA / backsheet	
Packing Options	4Pcs/ carton , 150 cartons/ 40 FCL =600/container 10Pcs/ wooden box	

**3. I-V characteristic curve**

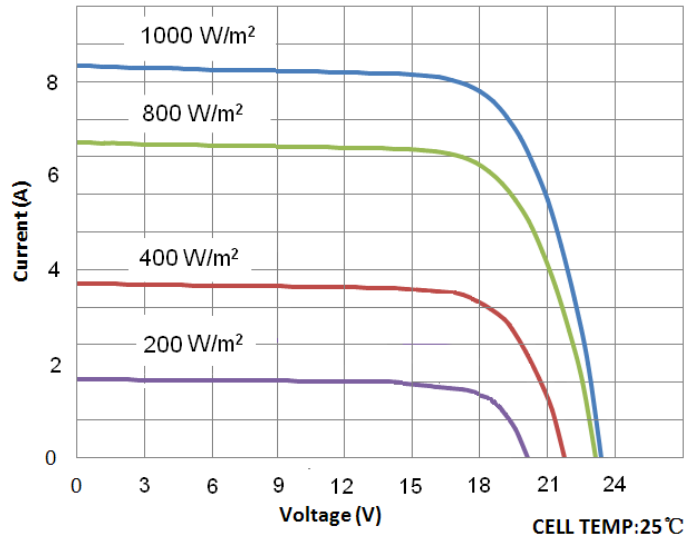
**3.1 I-V characteristic curve of module at STC**



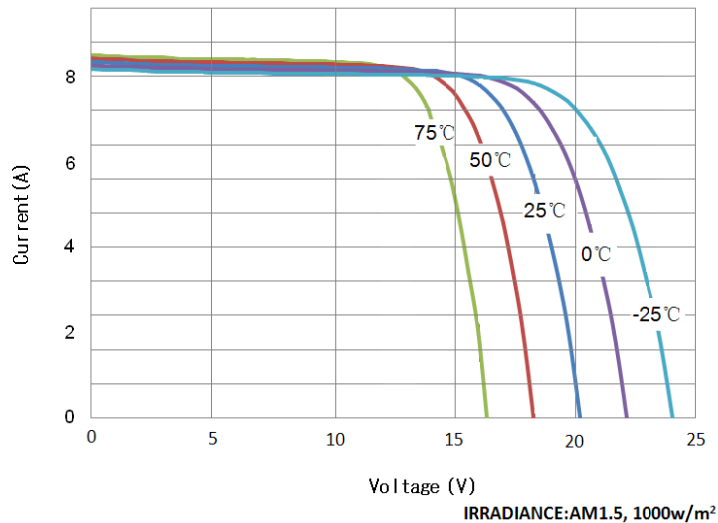




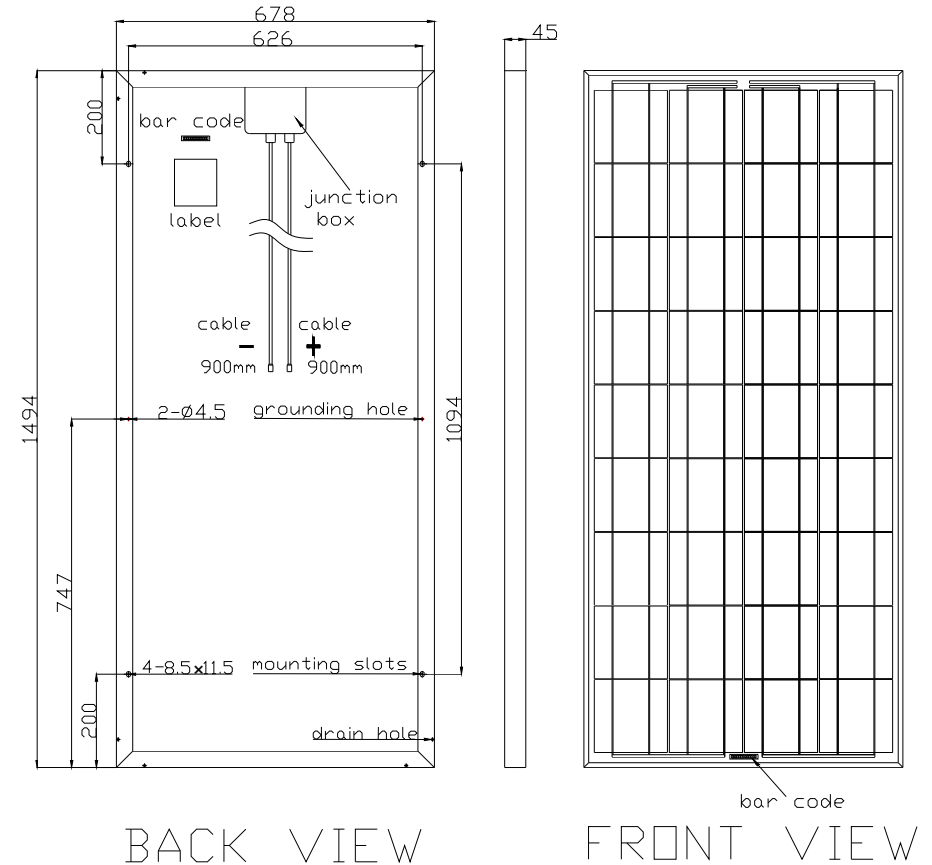
3.2 I-V characteristics curve at various irradiance levels



3.3 I-V characteristics curve at various cell temperatures (75°C, 50°C, 25°C, 0°C, -25°C) at AM1.5, 1000w/m² irradiance.



4. Basic Dimensions



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**SF160-24-1M (TÜV) —Module Specifications (Mono)**  
**SF160-24-M (UL)**

**1. Electrical characteristics**

**1.1 Electrical characteristics at STC**

*P<sub>max</sub>, V<sub>oc</sub>, I<sub>sc</sub>, V<sub>mp</sub> and I<sub>mp</sub> at STC (1000W/m<sup>2</sup>, 25±2°C, AM 1.5);*  
*All electrical specifications are +/-5%.*

Maximum Power (P <sub>max</sub> )	150W	155W	160W	165W	170W	175W	180W
Open Circuit Voltage (V <sub>oc</sub> )	43.4V	43.5V	43.5V	44.0V	44.5V	44.8V	45.0V
Short Circuit Current (I <sub>sc</sub> )	4.88A	4.90A	5.00A	5.10A	5.12A	5.17A	5.20A
Maximum Power Voltage (V <sub>mp</sub> )	34.8V	35.4V	35.6V	35.8V	35.9V	36.0V	36.0V
Maximum Power Current (I <sub>mp</sub> )	4.31A	4.38A	4.50A	4.61A	4.74A	4.86A	5.00A
Module Efficiency (%)	11.8	12.2	12.5	12.9	13.3	13.7	14.1
Cell Efficiency (%)	14.1	14.5	15.0	15.5	16.1	16.6	17.2

**1.2 Electrical characteristics at 1000W/m<sup>2</sup>, 45±3°C, AM 1.5**

*P<sub>max</sub>, V<sub>oc</sub>, I<sub>sc</sub>, V<sub>mp</sub> and I<sub>mp</sub> at 1000W/m<sup>2</sup>, 45 ±3°C, AM 1.5;*  
*All electrical specifications are +/-5%.*

Maximum Power (P <sub>max</sub> )	138W	143W	148W	152W	157W	161W	166W
Open Circuit Voltage (V <sub>oc</sub> )	40.1V	40.2V	40.4V	40.6V	41.1V	41.4V	41.8V
Short Circuit Current (I <sub>sc</sub> )	4.90A	4.95A	5.06A	5.12A	5.15A	5.20A	5.25A
Maximum Power Voltage (V <sub>mp</sub> )	32.1V	32.6V	32.8V	33.0V	33.1V	33.2V	33.2V
Maximum Power Current (I <sub>mp</sub> )	4.32A	4.40A	4.52A	4.62A	4.76A	4.85A	5.01A
Module Efficiency (%)	10.8	11.2	11.6	12.0	12.3	12.6	13.0
Cell Efficiency (%)	14.1	14.5	15.0	15.5	16.1	16.6	17.2

**1.3 Temperature Coefficients**

Temperature Coefficients of P	-0.4%/°C
Temperature Coefficients of V	-0.38%/°C
Temperature Coefficients of I	+0.04%/°C



**1.4 Maximum System Voltage**

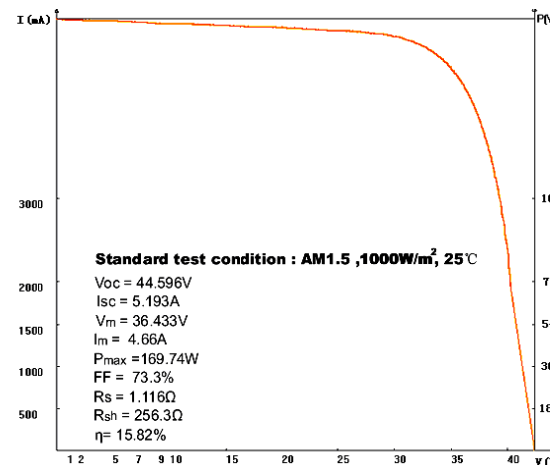
Maximum System Voltage (TÜV)	1000V
Maximum System Voltage (UL)	600V

**2. Mechanical characteristics**

Cell Technology	125mmx125mm [4.92inx4.92in] Mono-Si
Brand Name of Solar Cells	Solarfun
Number of Cells (Pcs)	72 (6x12)
Dimensions	1580mmx808mmx45mm [62.2inx31.8inx1.77in]
Output Cables	dia.: 4mm; length: 900mm [35.4in]
Weight	15kg [33lb]
Frame	Aluminum-alloy
Front / Encapsulant / Back	tempered glass / EVA / backsheet
Packing Options	1) 4Pcs/ carton, 140 cartons/40 FCL = 560/container 2) 2Pcs/ carton ,266 cartons/40 FCL = 532/container 3) 36Pcs/ pallet, 14 pallets /40 FCL = 504/container

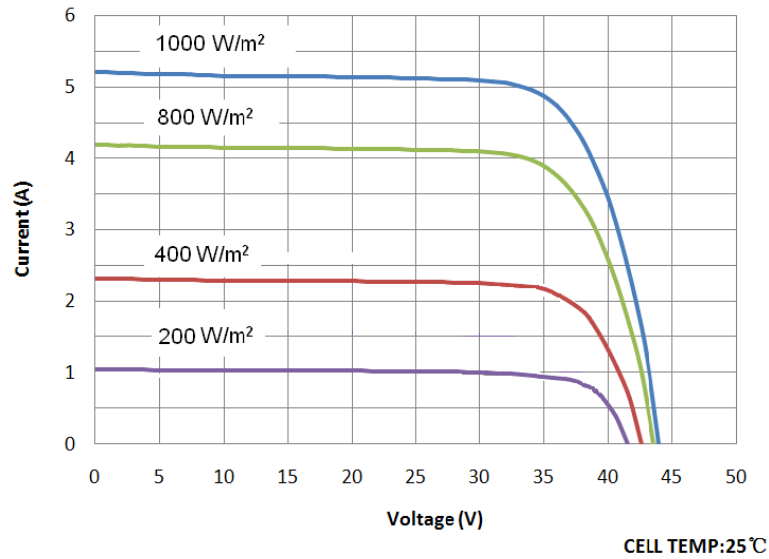
**3. I-V characteristic curve**

**3.1 I-V characteristic curve of module at STC**

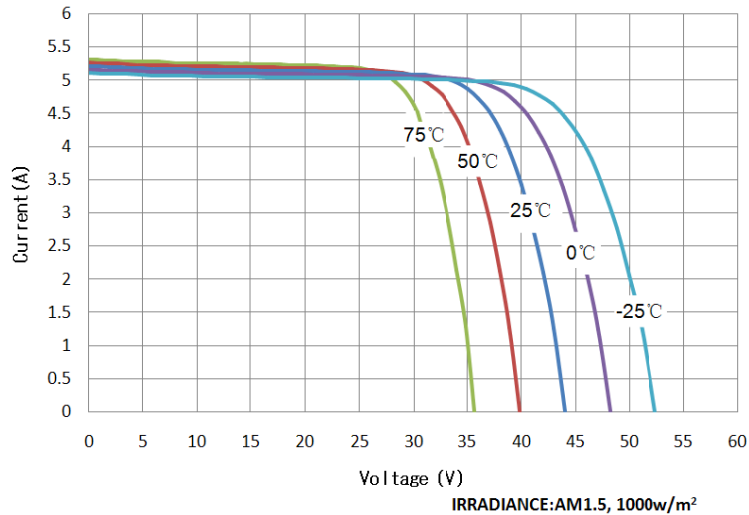




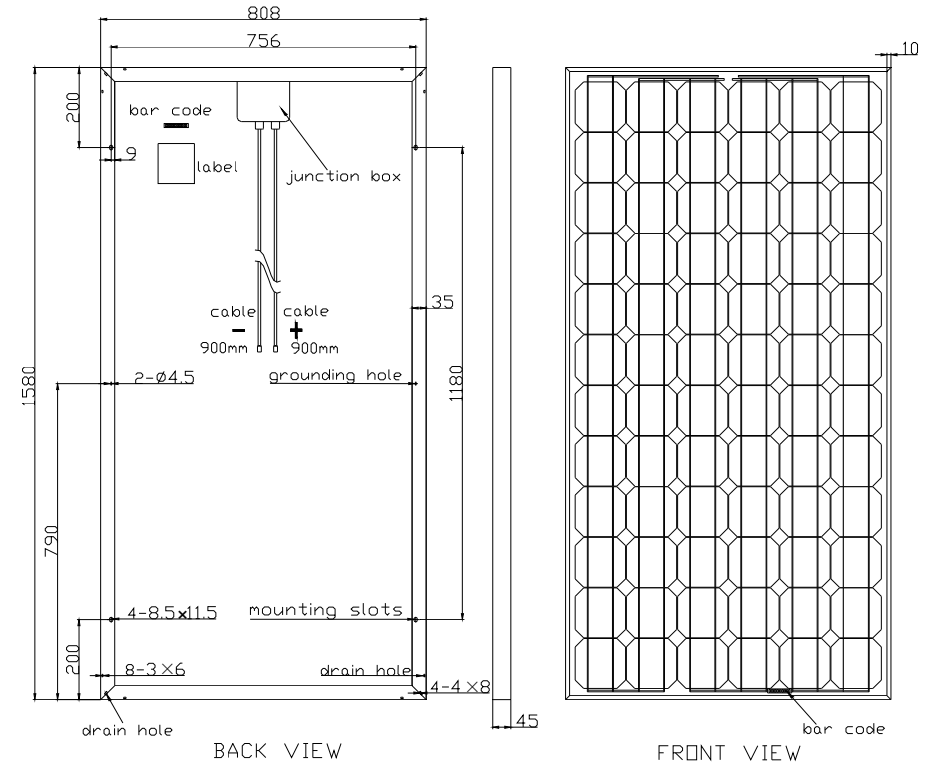
3.2 I-V characteristics curve at various irradiance levels



3.3 I-V characteristics curve at various cell temperatures



4. Basic Dimensions



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**SF160-24-1P  
SF160-24-P (UL) —Module Specifications (Poly)**

**1. Electrical characteristics**

**1.1 Electrical characteristics at STC**

*P<sub>max</sub>, V<sub>oc</sub>, I<sub>sc</sub>, V<sub>mp</sub> and I<sub>mp</sub> at STC (1000W/m<sup>2</sup>, 25±2°C, AM 1.5);  
All electrical specifications are +/-5%.*

Maximum Power (P <sub>max</sub> )	150W	155W	160W	165W	170W	175W	180W
Open Circuit Voltage (V <sub>oc</sub> )	43.2V	43.3V	43.5V	43.7V	44.1V	44.5V	44.7V
Short Circuit Current (I <sub>sc</sub> )	4.86A	4.95A	5.03A	5.14A	5.17A	5.20A	5.23A
Maximum Power Voltage (V <sub>mp</sub> )	34.7V	35.2V	35.3V	35.5V	35.5V	35.7V	35.8V
Maximum Power Current (I <sub>mp</sub> )	4.32A	4.40A	4.51A	4.65A	4.78A	4.90A	5.03A
Module Efficiency (%)	11.8	12.2	12.5	12.9	13.3	13.7	14.1
Cell Efficiency (%)	13.4	13.8	14.3	14.8	15.3	15.8	16.6

**1.2 Electrical characteristics at 1000W/m<sup>2</sup>, 45±3°C, AM 1.5**

*P<sub>max</sub>, V<sub>oc</sub>, I<sub>sc</sub>, V<sub>mp</sub> and I<sub>mp</sub> at 1000W/m<sup>2</sup>, 45 ±3°C, AM 1.5;  
All electrical specifications are +/-5%.*

Maximum Power (P <sub>max</sub> )	138W	143W	148W	152W	157W	161W	166W
Open Circuit Voltage (V <sub>oc</sub> )	40.0V	40.1V	40.3V	40.5V	41.0V	41.3V	41.5V
Short Circuit Current (I <sub>sc</sub> )	4.91A	4.95A	5.06A	5.14A	5.16A	5.24A	5.30A
Maximum Power Voltage (V <sub>mp</sub> )	32.0V	32.4V	32.7V	32.9V	33.0V	33.1V	33.1V
Maximum Power Current (I <sub>mp</sub> )	4.33A	4.42A	4.53A	5.63A	4.77A	4.86A	5.04A
Module Efficiency (%)	10.8	11.2	11.6	12.0	12.3	12.6	13.0
Cell Efficiency (%)	13.4	13.8	14.3	14.8	15.3	15.8	16.6

**1.3 Temperature Coefficients**

Temperature Coefficients of P	-0.4%/°C
Temperature Coefficients of V	-0.38%/°C
Temperature Coefficients of I	+0.04%/°C

**1.4 Maximum System Voltage**

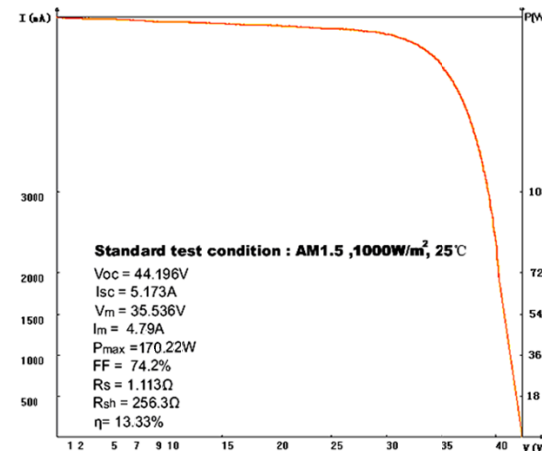
Maximum System Voltage	1000V
Maximum System Voltage (UL)	600V

**2. Mechanical characteristics**

Cell Technology	125mm × 125mm [4.92in × 4.92in] Poly-Si
Brand Name of Solar Cells	Solarfun
Number of Cells (Pcs)	72 (6x12)
Dimensions	1580mmx808mmx45mm [62.2inx31.8inx1.77in]
Output Cables	dia.: 4mm; length: 900mm [35.4in]
Weight	15kg [33lb]
Frame	Aluminum-alloy
Front / Encapsulant / Back	tempered glass / EVA / backsheet
Packing Options	1) 4Pcs/ carton, 140 cartons/40 FCL = 560/container 2) 2Pcs/ carton ,266 cartons/40 FCL = 532/container 3) 36Pcs/ pallet, 14 pallets /40 FCL = 504/container

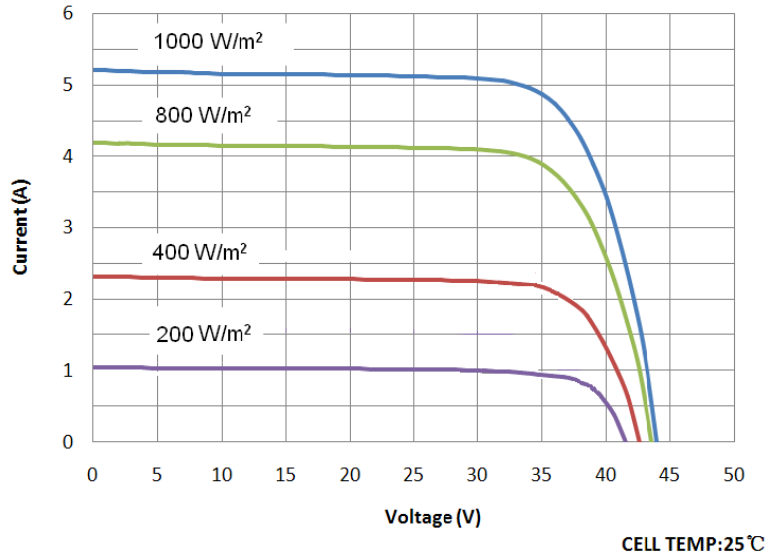
**3. I-V characteristic curve**

**3.1 I-V characteristic curve of module at STC**

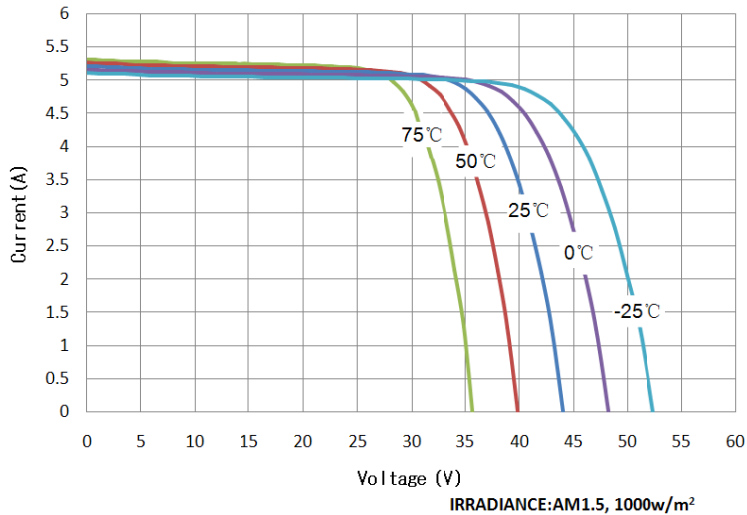




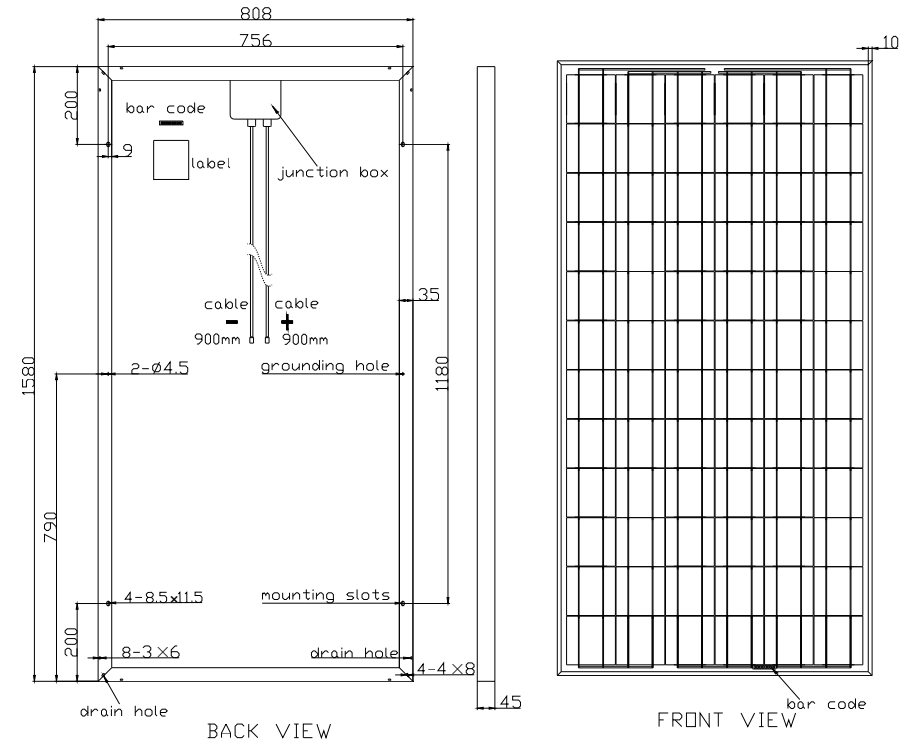
3.2 I-V characteristics curve at various irradiance levels



3.3 I-V characteristics curve at various cell temperatures



4. Basic Dimensions



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**SF190-27-1M (TÜV) —Module Specifications (Mono)**  
**SF190-27-M (UL)**

**1. Electrical characteristics**

**1.1 Electrical characteristics at STC**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at STC (1000W/m<sup>2</sup>, 25±2°C, AM 1.5);  
 All electrical specifications are +/-5%.

Maximum Power (P <sub>max</sub> )	170W	175W	180W	185W	190W	195W	200W	205W	210W
Open Circuit Voltage (V <sub>oc</sub> )	32.4V	32.5V	32.6V	32.7V	32.8V	32.9V	33.0V	33.1V	33.2V
Short Circuit Current (I <sub>sc</sub> )	7.49A	7.69A	7.78A	7.86A	7.93A	8.12A	8.19A	8.26A	8.32A
Maximum Power Voltage (V <sub>mp</sub> )	26.1V	26.2V	26.3V	26.4V	26.5V	26.6V	26.7V	26.8V	26.9V
Maximum Power Current (I <sub>mp</sub> )	6.51A	6.68A	6.84A	7.00A	7.17A	7.33A	7.49A	7.65A	7.81A
Module Efficiency (%)	11.4	11.7	12.1	12.4	12.7	13.1	13.4	13.7	14.1
Cell Efficiency (%)	13.1	13.5	13.9	14.3	14.7	15.1	15.5	15.9	16.3

**1.2 Electrical characteristics at 1000W/m<sup>2</sup>, 45±3°C, AM 1.5**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at 1000W/m<sup>2</sup>, 45 ±3°C, AM 1.5;  
 All electrical specifications are +/-5%.

Maximum Power (P <sub>max</sub> )	157W	161W	166W	171W	175W	179W	184W	189W	194W
Open Circuit Voltage (V <sub>oc</sub> )	29.9V	30.0V	30.1V	30.2V	30.3V	30.4V	30.5V	30.6	30.7
Short Circuit Current (I <sub>sc</sub> )	7.50A	7.70A	7.80A	7.88A	7.95A	8.14A	8.20A	8.27A	8.34A
Maximum Power Voltage (V <sub>mp</sub> )	24.1V	24.2V	24.3V	24.4V	24.5V	24.5V	24.6V	24.7V	24.8V
Maximum Power Current (I <sub>mp</sub> )	6.54A	6.69A	6.85A	7.01A	7.15A	7.34A	7.48A	7.65A	7.82A
Module Efficiency (%)	10.5	10.8	11.1	11.5	11.7	12.0	12.9	13.2	13.6
Cell Efficiency (%)	13.1	13.5	13.9	14.3	14.7	15.1	15.5	15.9	16.3

**1.3 Temperature Coefficients**

Temperature Coefficients of P	-0.4%/°C
Temperature Coefficients of V	-0.38%/°C
Temperature Coefficients of I	+0.04%/°C



**1.4 Maximum System Voltage**

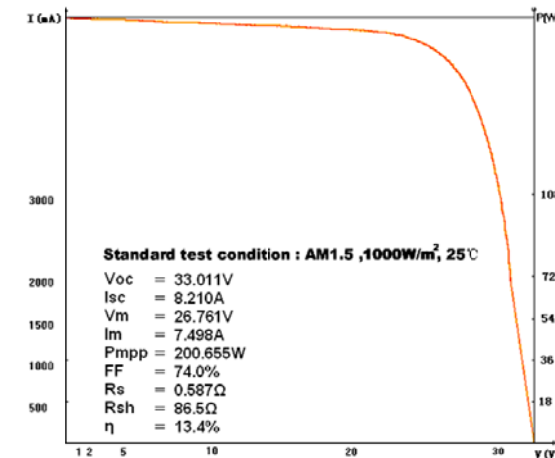
Maximum System Voltage (TÜV)	1000V
Maximum System Voltage(UL)	600V

**2. Mechanical characteristics**

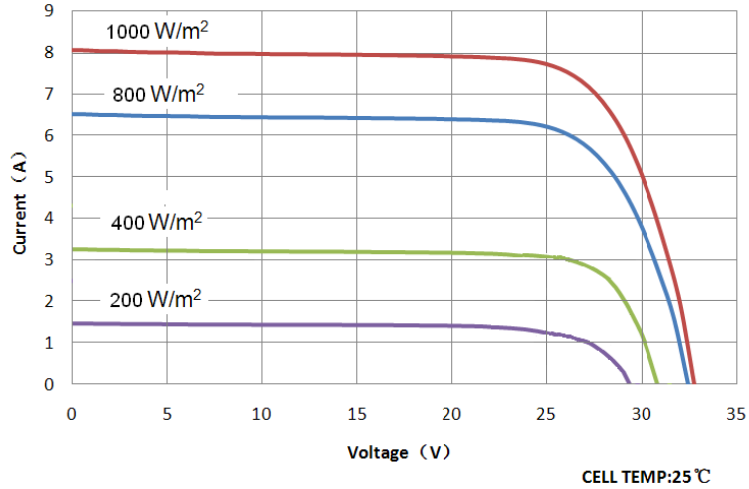
Cell Technology	156mm × 156mm [6.14in × 6.14in]	Mono-Si
Brand Name of Solar Cells	Solarfun	
Number of Cells (Pcs)	54 (6 × 9)	
Dimensions	1494mm × 1000mm × 45mm [58.8in × 39.37in × 1.77in]	
Output Cables	dia.: 4mm; length: 900mm [35.4in]	
Weight	18kg [39.6lb]	
Frame	Aluminum-alloy	
Front / Encapsulant / Back	tempered glass / EVA /backsheet	
Packing Options	1) 4Pcs/ carton, 135 cartons/40 FCL = 540/container 2) 2Pcs/ carton ,266 cartons/40 FCL = 532/container 3) 36Pcs/ pallet, 14 pallets /40 FCL = 504/container	

**3. I-V characteristic curve**

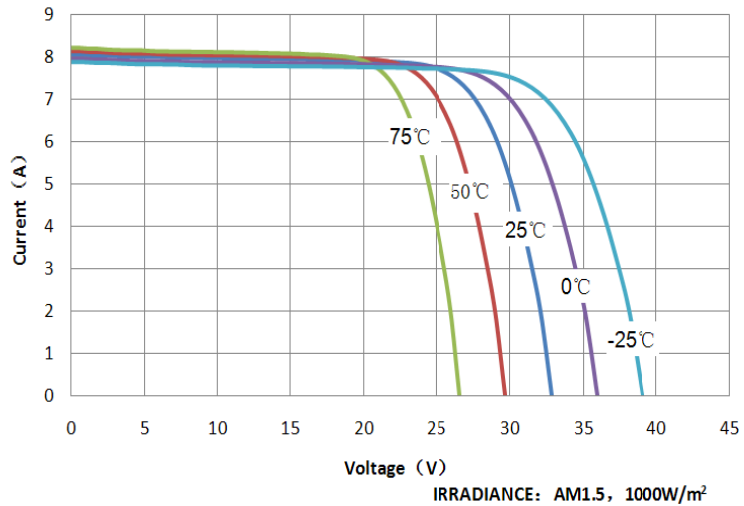
**3.1 I-V characteristic curve of module at STC**



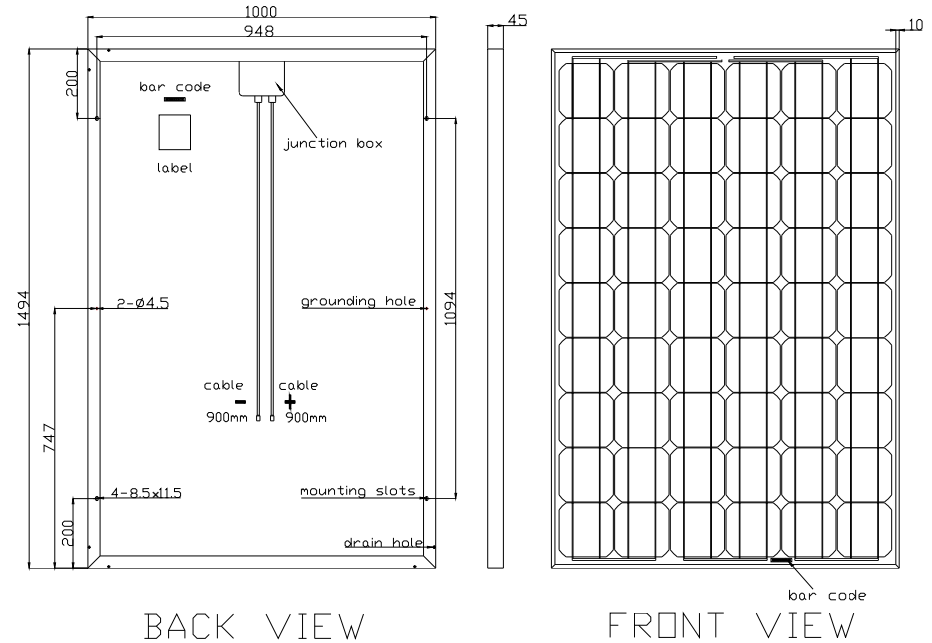
3.2 I-V characteristics curve at various irradiance levels



3.3 I-V characteristics curve at various cell temperatures (75°C, 50°C, 25°C, 0°C, -25°C) at AM1.5, 1000W/m² irradiance.



4. Basic Dimensions



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**SF190-27-1P (TÜV)  
SF190-27-P (UL) —Module Specifications (Poly)**

**1. Electrical characteristics**

**1.1 Electrical characteristics at STC**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at STC (1000W/m<sup>2</sup>, 25±2°C, AM 1.5);  
All electrical specifications are +/-5%.

Maximum Power ( $P_{max}$ )	170W	175W	180W	185W	190W	195W	200W	205W	210W
Open Circuit Voltage ( $V_{oc}$ )	32.2V	32.3V	32.4V	32.5V	32.6V	32.7V	32.8V	32.9V	33.0V
Short Circuit Current ( $I_{sc}$ )	7.54A	7.64A	7.72A	7.80A	7.98A	8.06A	8.24A	8.35A	8.48A
Maximum Power Voltage ( $V_{mp}$ )	26.3V	26.4V	26.5V	26.6V	26.7V	26.8V	26.9V	27.0V	27.1A
Maximum Power Current ( $I_{mp}$ )	6.47A	6.63A	6.80A	6.96A	7.12A	7.28A	7.44A	7.60A	7.75A
Module Efficiency (%)	11.4	11.7	12.1	12.4	12.7	13.1	13.4	13.7	14
Cell Efficiency (%)	13.0	13.4	13.7	14.1	14.6	15.0	15.4	15.8	16.2

**1.2 Electrical characteristics at 1000W/m<sup>2</sup>, 45±3°C, AM 1.5**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at 1000W/m<sup>2</sup>, 45 ±3°C, AM 1.5;  
All electrical specifications are +/-5%.

Maximum Power ( $P_{max}$ )	157W	161W	166W	171W	175W	179W	184W	190W	195W
Open Circuit Voltage ( $V_{oc}$ )	29.8V	29.9V	29.9V	30.0V	30.1V	30.2V	30.3V	30.4V	30.5V
Short Circuit Current ( $I_{sc}$ )	7.55A	7.66A	7.75A	7.83A	8.00A	8.08A	8.25A	8.43A	8.60A
Maximum Power Voltage ( $V_{mp}$ )	24.3V	24.4V	24.5V	24.6V	24.7V	24.7V	24.8V	24.9V	25.0V
Maximum Power Current ( $I_{mp}$ )	6.48A	6.60A	6.81A	6.98A	7.10A	7.26A	7.43A	7.63A	7.80A
Module Efficiency (%)	10.5	10.8	11.1	11.5	11.7	12.0	12.9	13.2	13.5
Cell Efficiency (%)	13.0	13.4	13.7	14.1	14.6	15.0	15.4	15.8	16.2

**1.3 Temperature Coefficients**

Temperature Coefficients of P	-0.4%/°C
Temperature Coefficients of V	-0.38%/°C
Temperature Coefficients of I	+0.04%/°C



**1.4 Maximum System Voltage**

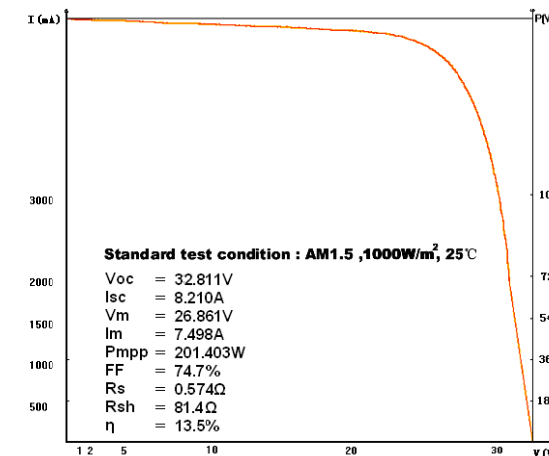
Maximum System Voltage (TÜV)	1000V
Maximum System Voltage(UL)	600V

**2. Mechanical characteristics**

Cell Technology	156mm × 156mm [6.14in × 6.14in]	Poly-Si
Brand Name of Solar Cells	Solarfun	
Number of Cells (Pcs)	54 (6 × 9)	
Dimensions	1494mm × 1000mm × 45mm [58.8in × 39.37in × 1.77in]	
Output Cables	dia.: 4mm; length: 900mm [35.4in]	
Weight	18kg [39.6lb]	
Frame	Aluminum-alloy	
Front / Encapsulant / Back	tempered glass / EVA / backsheet	
Packing Options	1) 4Pcs/ carton, 135 cartons/40 FCL = 540/container 2) 2Pcs/ carton ,266 cartons/40 FCL = 532/container 3) 36Pcs/ pallet, 14 pallets /40 FCL = 504/container	

**3. I-V characteristic curve**

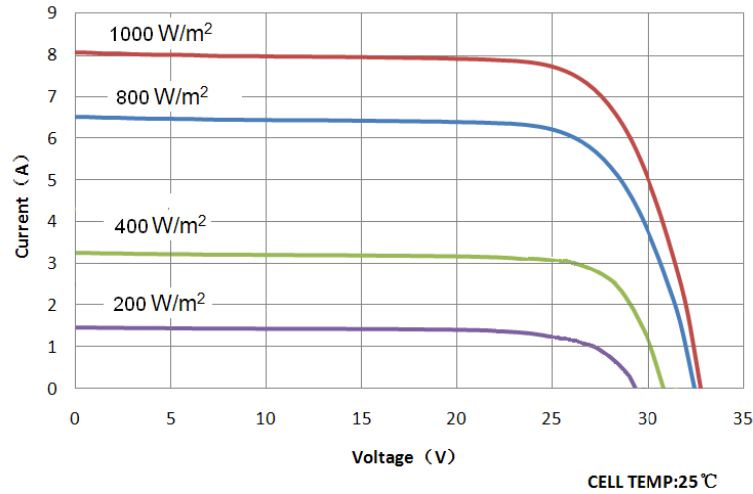
**3.1 I-V characteristic curve of module at STC**



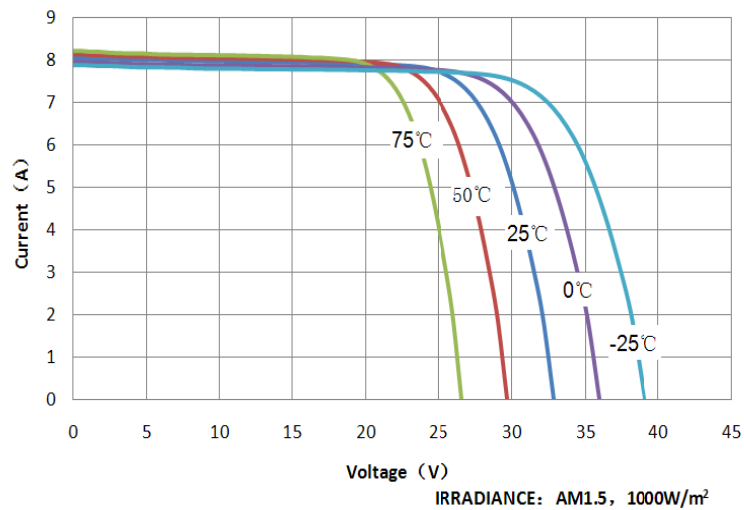




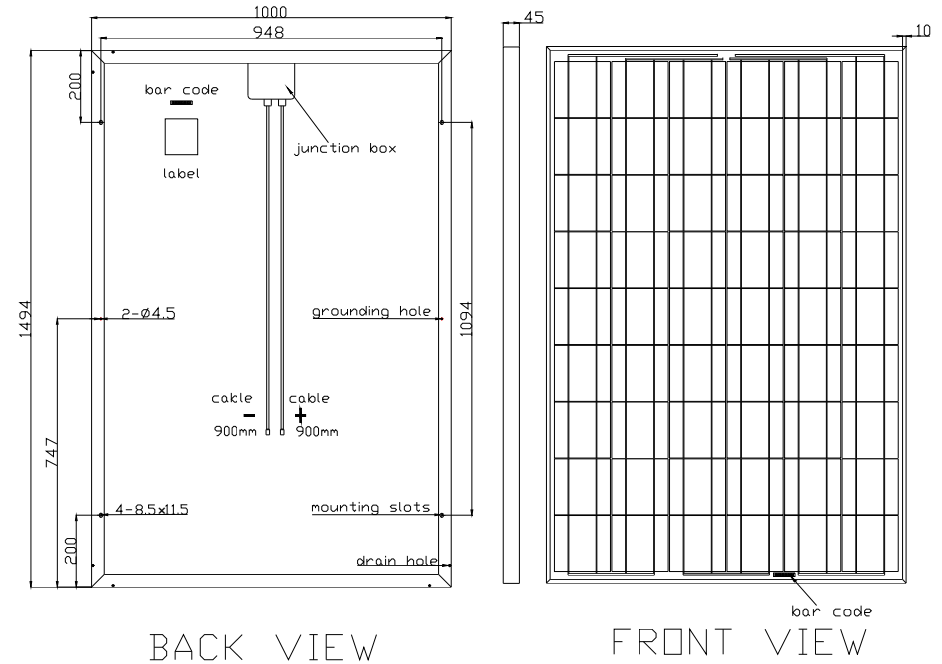
3.2 I-V characteristics curve at various irradiance levels



3.3 I-V characteristics curve at various cell temperatures



4. Basic Dimensions



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**SF220-30-1M (TÜV) —Module Specifications (Mono)**  
**SF220-30-M**

**1. Electrical characteristics**

**1.1 Electrical characteristics at STC**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at STC (1000W/m<sup>2</sup>, 25±2°C, AM 1.5);  
 All electrical specifications are +/-5%.

Maximum Power (P <sub>max</sub> )	200W	205W	210W	215W	220W	225W	230W	235W	240W
Open Circuit Voltage (V <sub>oc</sub> )	36.2V	36.3V	36.4V	36.5V	36.6V	36.8V	36.9V	37.0V	37.1V
Short Circuit Current (I <sub>sc</sub> )	7.5A	7.65A	7.80A	7.95A	8.10A	8.16A	8.31A	8.42A	8.52A
Maximum Power Voltage (V <sub>mp</sub> )	29.6V	29.7V	29.8V	29.9V	30.0V	30.1V	30.2V	30.3V	30.3V
Maximum Power Current (I <sub>mp</sub> )	6.76A	6.90A	7.05A	7.20A	7.34A	7.48A	7.62A	7.76A	7.92A
Module Efficiency (%)	12.1	12.4	12.7	13.0	13.3	13.6	13.9	14.2	14.5
Cell Efficiency (%)	14.0	14.3	14.6	15.0	15.3	15.6	16.0	16.4	16.8

**1.2 Electrical characteristics at 1000W/m<sup>2</sup>, 45±3°C, AM 1.5**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at 1000W/m<sup>2</sup>, 45 ±3°C, AM 1.5;  
 All electrical specifications are +/-5%.

Maximum Power (P <sub>max</sub> )	184W	189W	193W	198W	202W	208W	212W	216W	222W
Open Circuit Voltage (V <sub>oc</sub> )	33.4V	33.5V	33.6V	33.7V	33.8V	33.9V	34.0V	34.1V	34.3V
Short Circuit Current (I <sub>sc</sub> )	7.51A	7.66A	7.81A	7.96A	8.12A	8.20A	8.35A	8.45A	8.55A
Maximum Power Voltage (V <sub>mp</sub> )	27.3V	27.4V	27.5V	27.6V	27.7V	27.8V	27.9V	28.0V	28.0V
Maximum Power Current (I <sub>mp</sub> )	6.74A	6.90A	7.04A	7.21A	7.35A	7.50A	7.61A	7.77A	7.95A
Module Efficiency (%)	11.1	11.4	11.7	12.0	12.2	12.5	12.8	13.1	13.4
Cell Efficiency (%)	14.0	14.3	14.6	15.0	15.3	15.6	16.0	16.4	16.8

**1.3 Temperature Coefficients**

Temperature Coefficients of P	-0.4%/°C
Temperature Coefficients of V	-0.38%/°C
Temperature Coefficients of I	+0.04%/°C



**1.4 Maximum System Voltage**

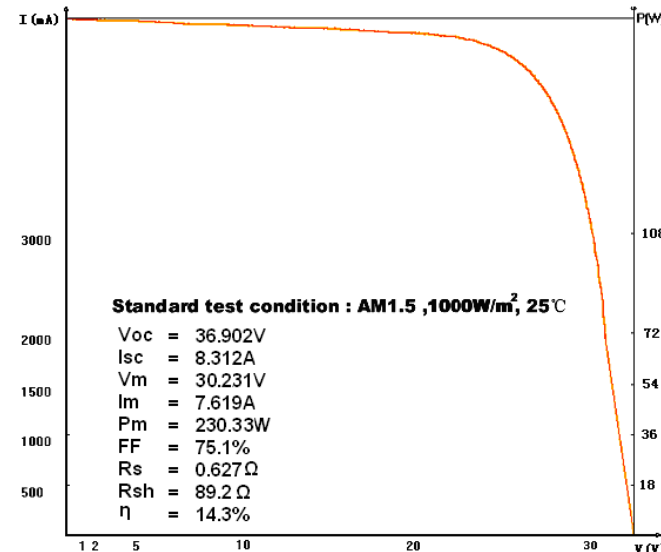
Maximum System Voltage (TÜV)	1000V
Maximum System Voltage	600V

**2. Mechanical characteristics**

Cell Technology	156mm × 156mm [6.14in × 6.14in]	Mono-Si
Brand Name of Solar Cells	Solarfun	
Number of Cells (Pcs)	60(6 × 10)	
Dimensions	1652mm × 1000mm × 50mm [65.04in × 39.37in × 1.97in]	
Output Cables	dia.: 4mm; length: 900mm [35.4in]	
Weight	22kg [48.4lb]	
Frame	Aluminum-alloy	
Front / Encapsulant / Back	tempered glass / EVA / backsheet	
Packing	34Pcs/ pallet, 13 pallets /40 FCL = 442/container	

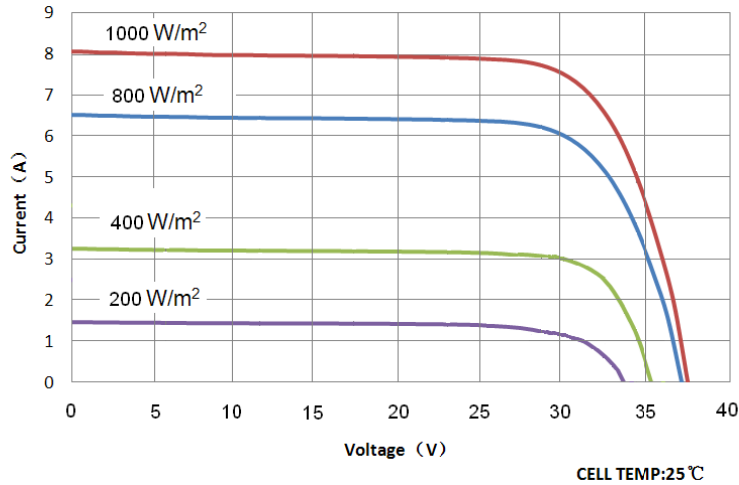
**3. I-V characteristic curve**

**3.1 I-V characteristic curve of module at STC**

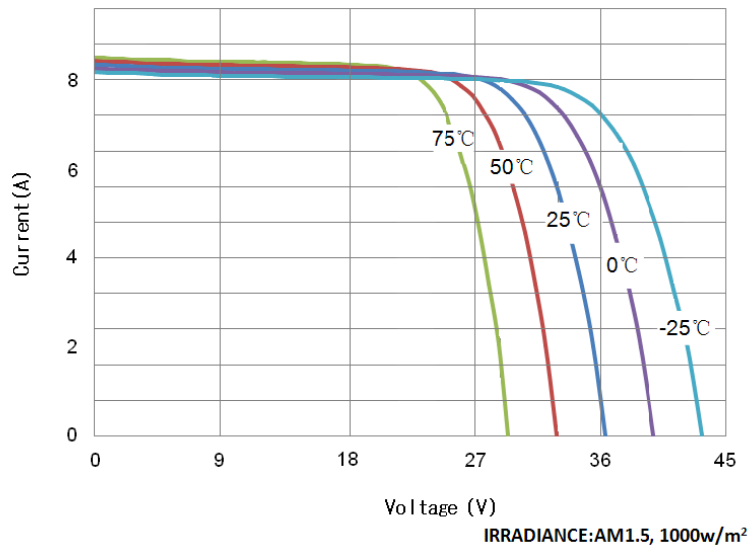




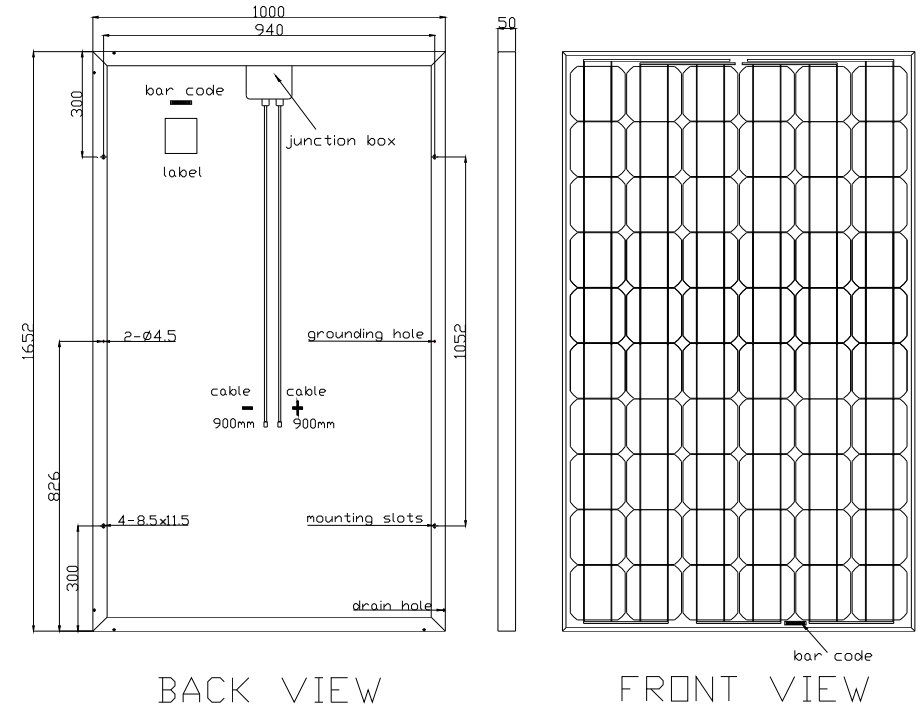
3.2 I-V characteristics curve at various irradiance levels



3.3 I-V characteristics curve at various cell temperatures (75°C, 50°C, 25°C, 0°C, -25°C) at AM1.5, 1000w/m² irradiance.



4. Basic Dimensions



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**SF220-30-1P (TÜV)  
SF220-30-P —Module Specifications (Poly)**

**1. Electrical characteristics**

**1.1 Electrical characteristics at STC**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at STC (1000W/m<sup>2</sup>, 25±2°C, AM 1.5);  
All electrical specifications are +/-5%.

Maximum Power (P <sub>max</sub> )	200W	205W	210W	215W	220W	225W	230W	235W	240W
Open Circuit Voltage (V <sub>oc</sub> )	36.0V	36.1V	36.2V	36.4V	36.5V	36.7V	36.8V	36.8V	37.0V
Short Circuit Current (I <sub>sc</sub> )	7.52A	7.67A	7.82A	7.97A	8.12A	8.18A	8.34A	8.44A	8.54A
Maximum Power Voltage (V <sub>mp</sub> )	29.5V	29.6V	29.7V	29.7V	29.8V	29.9V	30.0V	30.1V	30.2V
Maximum Power Current (I <sub>mp</sub> )	6.78A	6.93A	7.08A	7.24A	7.40A	7.53A	7.67A	7.81A	7.95A
Module Efficiency (%)	12.1	12.4	12.7	13.0	13.3	13.6	13.9	14.2	14.5
Cell Efficiency (%)	13.8	14.1	14.4	14.8	15.1	15.5	15.8	16.1	16.5

**1.2 Electrical characteristics at 1000W/m<sup>2</sup>, 45±3°C, AM 1.5**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at 1000W/m<sup>2</sup>, 45 ±3°C, AM 1.5;  
All electrical specifications are +/-5%.

Maximum Power (P <sub>max</sub> )	184W	189W	193W	198W	202W	208W	212W	216W	222W
Open Circuit Voltage (V <sub>oc</sub> )	33.2V	33.3V	33.4V	33.6V	33.7V	33.9V	34.0V	34.0V	34.2V
Short Circuit Current (I <sub>sc</sub> )	7.55A	7.70A	7.85A	8.00A	8.15A	8.20A	8.35A	8.46A	8.58A
Maximum Power Voltage (V <sub>mp</sub> )	27.2V	27.3V	27.4V	27.4V	27.5V	27.6V	27.7V	27.8V	27.9V
Maximum Power Current (I <sub>mp</sub> )	6.76A	6.92A	7.05A	7.25A	7.38A	7.55A	7.68A	7.80A	7.97A
Module Efficiency (%)	11.1	11.4	11.7	12.0	12.2	12.5	12.8	13.1	13.4
Cell Efficiency (%)	13.8	14.1	14.4	14.8	15.1	15.5	15.8	16.1	16.5

**1.3 Temperature Coefficients**

Temperature Coefficients of P	-0.4%/°C
Temperature Coefficients of V	-0.38%/°C
Temperature Coefficients of I	+0.04%/°C



**1.4 Maximum System Voltage**

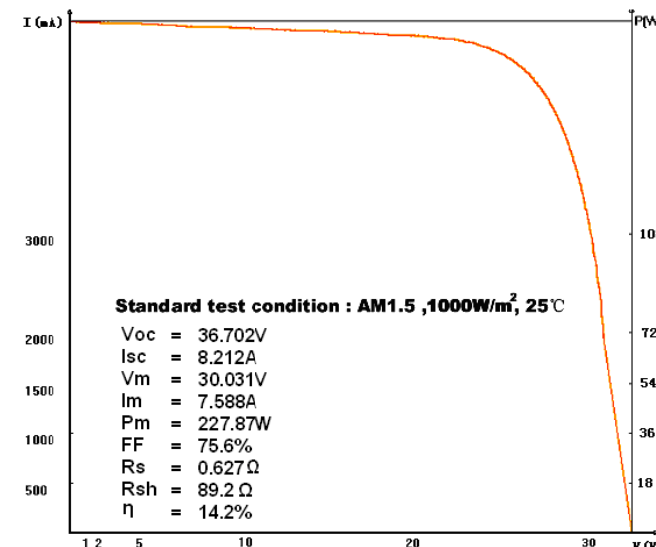
Maximum System Voltage (TÜV)	1000V
Maximum System Voltage	600V

**2. Mechanical characteristics**

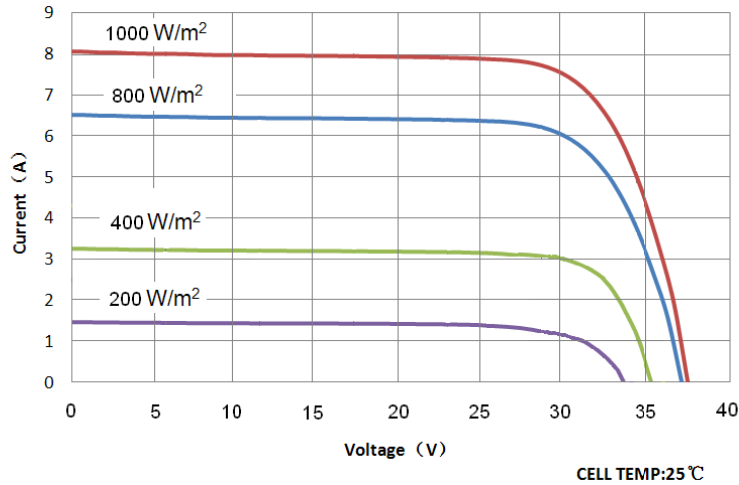
Cell Technology	156mm × 156mm [6.14in × 6.14in]	Poly-Si
Brand Name of Solar Cells	Solarfun	
Number of Cells (Pcs)	60(6 × 10)	
Dimensions	1652mm × 1000mm × 50mm [65.04in × 39.37in × 1.97in]	
Output Cables	dia.: 4mm; length: 900mm [35.4in]	
Weight	22kg [48.4lb]	
Frame	Aluminum-alloy	
Front / Encapsulant / Back	tempered glass / EVA / backsheet	
Packing	34Pcs/ pallet, 13 pallets /40 FCL = 442/container	

**3. I-V characteristic curve**

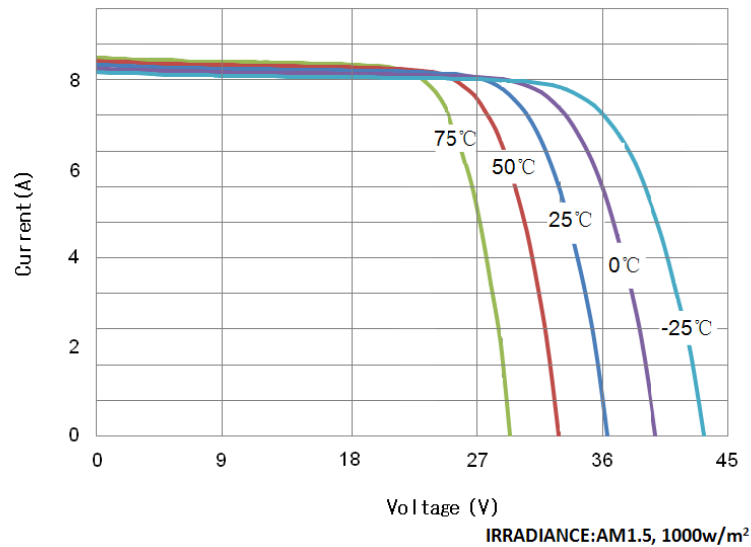
**3.1 I-V characteristic curve of module at STC**



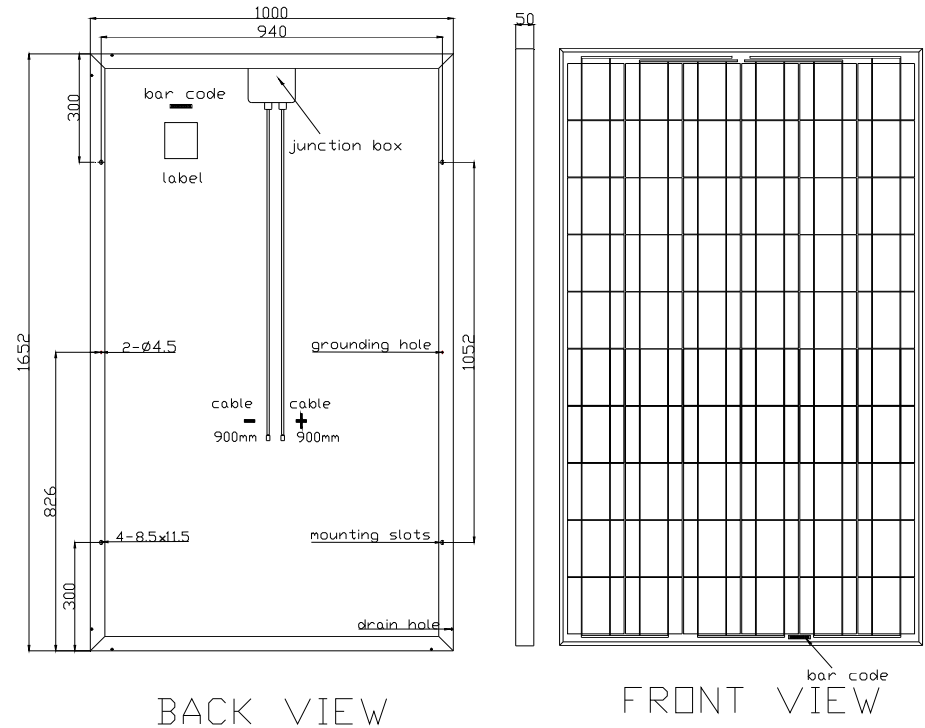
**3.2 I-V characteristics curve at various irradiance levels**



**3.3 I-V characteristics curve at various cell temperatures**



**4. Basic Dimensions**



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**SF260-36-1M  
SF260-36-M —Module Specifications (Mono)**

**1. Electrical characteristics**

**1.1 Electrical characteristics at STC**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at STC (1000W/m<sup>2</sup>, 25±2°C, AM 1.5);  
All electrical specifications are +/-5%.

Maximum Power (P <sub>max</sub> )	250W	255W	260W	265W	270W	275W	280W
Open Circuit Voltage (V <sub>oc</sub> )	44.0V	44.1V	44.2V	44.3V	44.4V	44.5V	44.5V
Short Circuit Current (I <sub>sc</sub> )	7.80A	7.92A	8.05A	8.10A	8.16A	8.28A	8.35A
Maximum Power Voltage (V <sub>mp</sub> )	35.8V	35.9V	36.0V	36.1V	36.2V	36.3V	36.3V
Maximum Power Current (I <sub>mp</sub> )	7.00A	7.11A	7.23A	7.34A	7.48A	7.60A	7.72A
Module Efficiency (%)	12.7	13.0	13.2	13.5	13.7	14.0	14.3
Cell Efficiency (%)	14.5	14.8	15.1	15.4	15.7	16.0	16.4

**1.2 Electrical characteristics at 1000W/m<sup>2</sup>, 45±3°C, AM 1.5**

$P_{max}$ ,  $V_{oc}$ ,  $I_{sc}$ ,  $V_{mp}$  and  $I_{mp}$  at 1000W/m<sup>2</sup>, 45 ±3°C, AM 1.5;  
All electrical specifications are +/-5%.

Maximum Power (P <sub>max</sub> )	230W	234W	240W	244W	248W	253W	258W
Open Circuit Voltage (V <sub>oc</sub> )	40.6V	40.7V	40.8V	40.9V	41.0V	41.2V	41.2V
Short Circuit Current (I <sub>sc</sub> )	7.82A	7.95A	8.06A	8.12A	8.18A	8.30A	8.38A
Maximum Power Voltage (V <sub>mp</sub> )	33.0V	33.1V	33.2V	33.3V	33.4V	33.5V	33.5V
Maximum Power Current (I <sub>mp</sub> )	7.01A	7.12A	7.23A	7.35A	7.50A	7.61A	7.73A
Module Efficiency (%)	11.7	11.9	12.2	12.4	12.6	12.9	13.1
Cell Efficiency (%)	14.5	14.8	15.1	15.4	15.7	16.0	16.4

**1.3 Temperature Coefficients**

Temperature Coefficients of P	-0.4%/°C
Temperature Coefficients of V	-0.38%/°C
Temperature Coefficients of I	+0.04%/°C



**1.4 Maximum System Voltage**

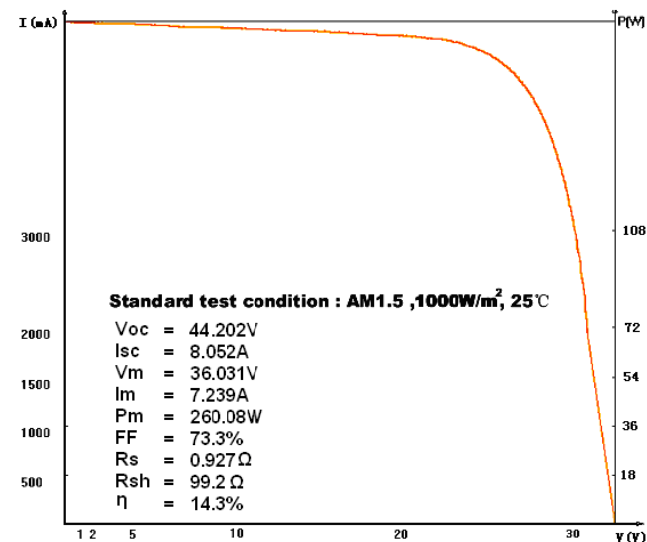
Maximum System Voltage	1000V
Maximum System Voltage	600V

**2. Mechanical characteristics**

Cell Technology	156mm × 156mm [6.14in × 6.14in]	Mono-Si
Brand Name of Solar Cells	Solarfun	
Number of Cells (Pcs)	72(6 × 12)	
Dimensions	1966mm × 1000mm × 50mm [77.4in × 39.37in × 1.97in]	
Output Cables	dia.: 4mm; length: 900mm [35.4in]	
Weight	26kg [57.2lb]	
Frame	aluminum-alloy	
Front / Encapsulant / Back	tempered glass / EVA / backsheet	
Packing	34Pcs/ pallet, 11 pallets /40 FCL = 374/container	

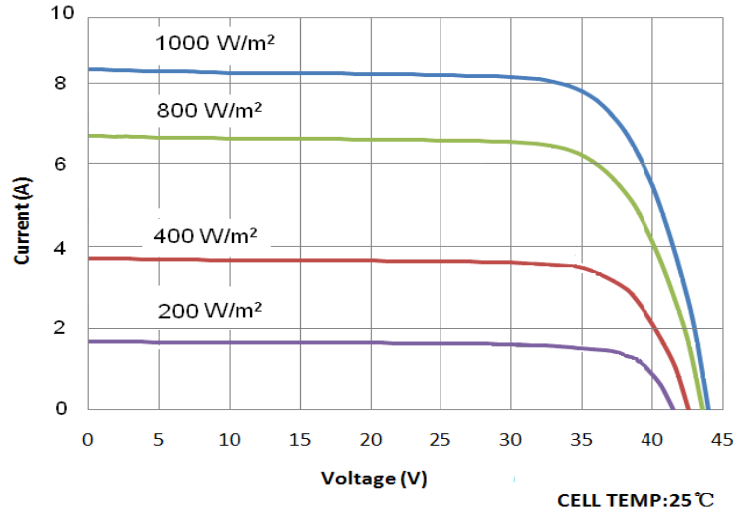
**3. I-V characteristic curve**

**3.1 I-V characteristic curve of module at STC**

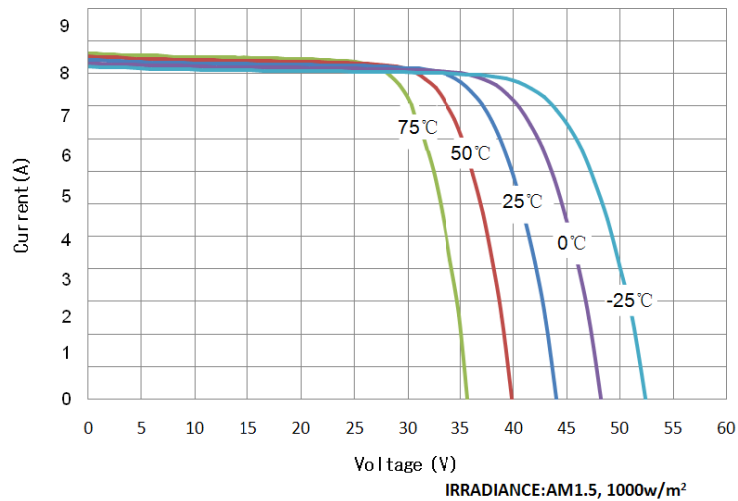




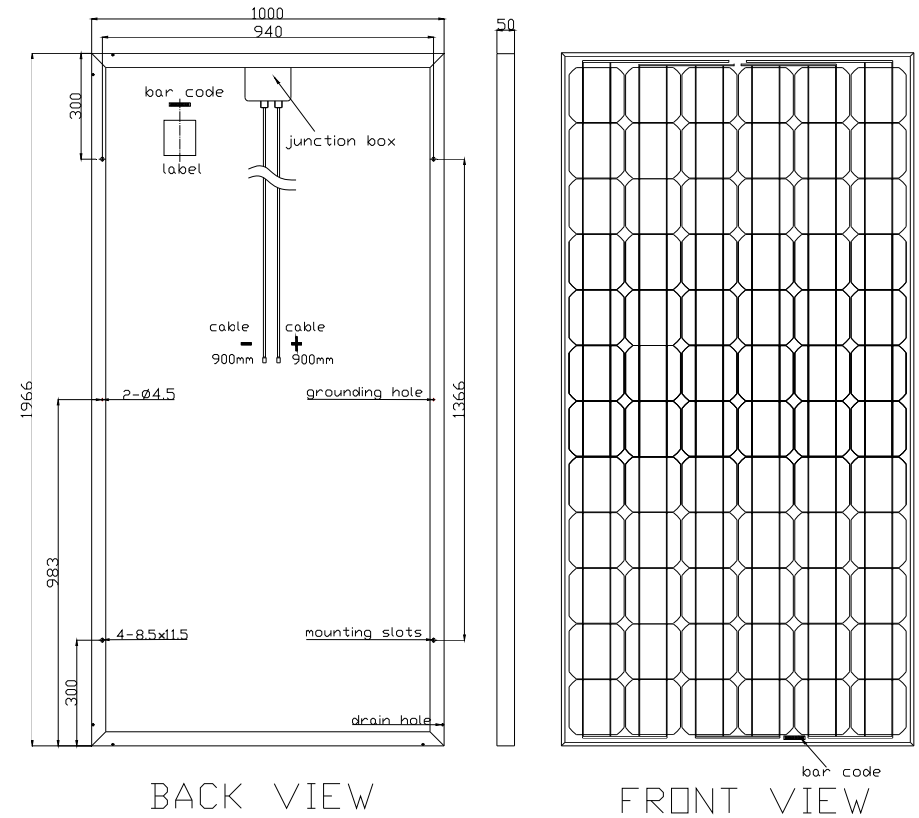
3.2 I-V characteristics curve at various irradiance levels



3.3 I-V characteristics curve at various cell temperatures



4. Basic Dimensions



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**SF260-36-1P  
SF260-36-P —Module Specifications (Poly)**

**1. Electrical characteristics**

**1.1 Electrical characteristics at STC**

*P<sub>max</sub>, V<sub>oc</sub>, I<sub>sc</sub>, V<sub>mp</sub> and I<sub>mp</sub> at STC (1000W/m<sup>2</sup>, 25±2°C, AM 1.5);  
All electrical specifications are +/-5%.*

Maximum Power (P <sub>max</sub> )	250W	255W	260W	265W	270W	275W	280W
Open Circuit Voltage (V <sub>oc</sub> )	43.3V	43.4V	43.6V	43.8V	44.0V	44.1V	44.3V
Short Circuit Current (I <sub>sc</sub> )	7.85A	7.95A	8.10A	8.15A	8.20A	8.35A	8.40A
Maximum Power Voltage (V <sub>mp</sub> )	35.6V	35.7V	35.8V	35.9V	36.0V	36.1V	36.1V
Maximum Power Current (I <sub>mp</sub> )	7.03A	7.15A	7.26A	7.38A	7.50A	7.62A	7.76A
Module Efficiency (%)	12.7	13.0	13.2	13.5	13.7	14.0	14.3
Cell Efficiency (%)	14.3	14.6	14.9	15.2	15.5	15.8	16.1

**1.2 Electrical characteristics at 1000W/m<sup>2</sup>, 45±3°C, AM 1.5**

*P<sub>max</sub>, V<sub>oc</sub>, I<sub>sc</sub>, V<sub>mp</sub> and I<sub>mp</sub> at 1000W/m<sup>2</sup>, 45 ±3°C, AM 1.5;  
All electrical specifications are +/-5%.*

Maximum Power (P <sub>max</sub> )	230W	234W	240W	244W	248W	253W	258W
Open Circuit Voltage (V <sub>oc</sub> )	40.0V	40.1V	40.3V	40.4V	40.6V	40.7V	40.9V
Short Circuit Current (I <sub>sc</sub> )	7.87A	8.00A	8.12A	8.18A	8.23A	8.37A	8.42A
Maximum Power Voltage (V <sub>mp</sub> )	32.8V	32.9V	33.0V	33.1V	33.2V	33.3V	33.3V
Maximum Power Current (I <sub>mp</sub> )	7.05A	7.12A	7.28A	7.38A	7.48A	7.60A	7.75A
Module Efficiency (%)	11.7	11.9	12.2	12.4	12.6	12.9	13.1
Cell Efficiency (%)	14.3	14.6	14.9	15.2	15.5	15.8	16.1

**1.3 Temperature Coefficients**

Temperature Coefficients of P	-0.4%/°C
Temperature Coefficients of V	-0.38%/°C
Temperature Coefficients of I	+0.04%/°C



**1.4 Maximum System Voltage**

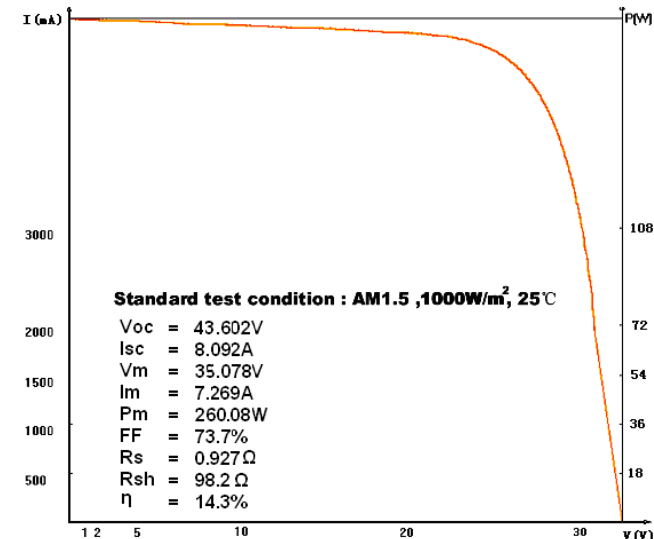
Maximum System Voltage	1000V
Maximum System Voltage	600V

**2. Mechanical characteristics**

Cell Technology	156mm × 156mm [6.14in × 6.14in]	Poly-Si
Brand Name of Solar Cells	Solarfun	
Number of Cells (Pcs)	72(6 × 12)	
Dimensions	1966mm × 1000mm × 50mm [77.4in × 39.37in × 1.97in]	
Output Cables	dia.: 4mm; length: 900mm [35.4in]	
Weight	26kg [57.2lb]	
Frame	aluminum-alloy	
Front / Encapsulant / Back	tempered glass / EVA / backsheet	
Packing	34Pcs/ pallet, 11 pallets /40 FCL = 374/container	

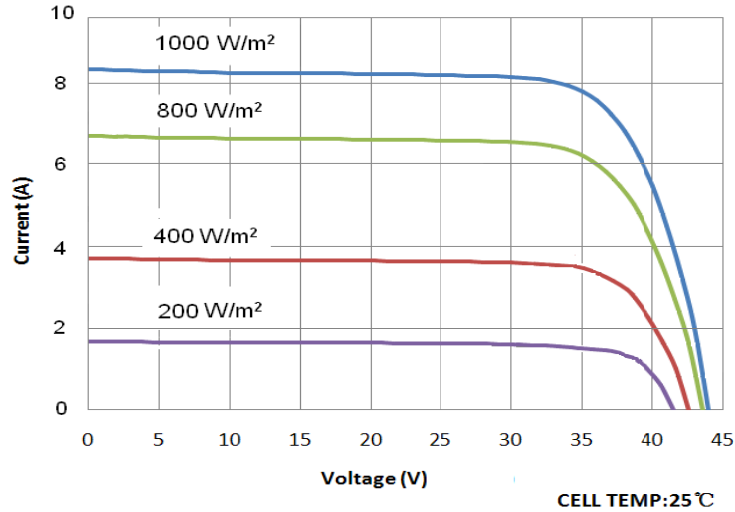
**3. I-V characteristic curve**

**3.1 I-V characteristic curve of module at STC**

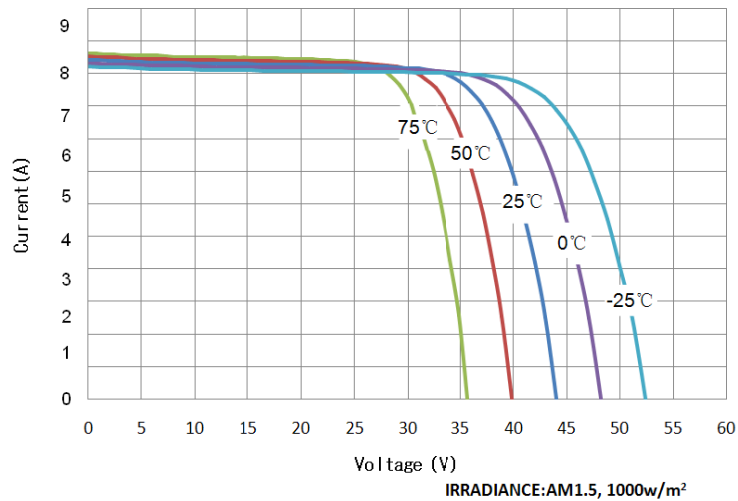




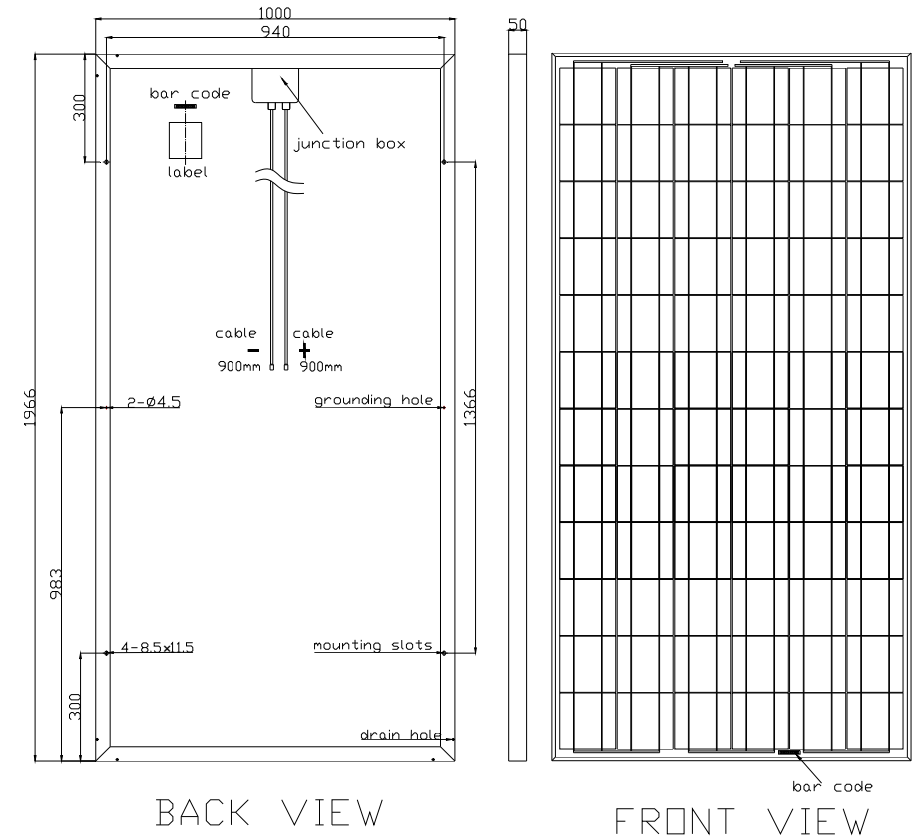
**3.2 I-V characteristics curve at various irradiance levels**



**3.3 I-V characteristics curve at various cell temperatures**



**4. Basic Dimensions**



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