



ULICA SOLAR

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ULICA SOLAR

Ningbo Ulica Solar Science & Technology Co., Ltd. is a professional solar products manufacturer who specializes in offering solar cells, modules and solar system integration since August 2005, with a vigorous and united team, including senior experts in photovoltaic industry as well as in spaceflight and terrestrial solar applications field.

As a hi-tech enterprise, Ulica Solar utilizes the advanced silicon solar cell manufacturing technology and equipments and focuses on research and development, production and sales activities. It has already acquired many international certificates such as CE, IEC 61215 & IEC 61730/TÜV, UL, ISO9001, CEC and CGC-Solar. Our products exports to Europe, U.S.A, Asia and Australia etc.

Ulica Solar aims at improving product technology, reducing operational cost, developing high quality diversified products and services, establishing international relationships as well as enhancing brand recognition.

Ulica Solar commits itself to turn into a leading enterprise both in domestic and abroad photovoltaic field so as to contribute to the renewable clean energy for the world.

Enjoy Sunny Life!



165(34)D UL800 165W Photovoltaic Module

Performance

Rated Power	165 W
Tolerance	±3%
Guaranty	Five-year Warranty; 80% power output over 25 years.

Mechanical Characteristics

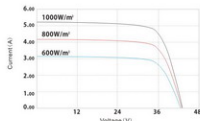
Dimension	1580 mm×800 mm×46mm
Tolerance	±2mm
Weight	17kg
Frame	Aluminum Alloy Frame
Solar Cells	72pcs. of 125 mm×125 mm mono-crystalline silicon solar cells

Electrical Characteristics

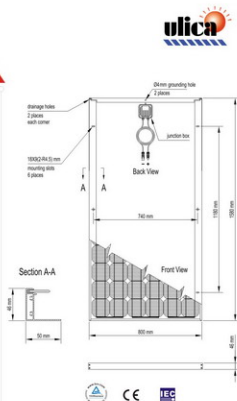
Pmax	165W
Vmp	35.0V
Imp	4.72A
Isc	5.19A
Voc	43.0V
NOCT	47±2℃
Cell Efficiency	15.4%
Module Efficiency	13.1%
Temperature Coefficient of Isc	(0.050±0.015)%/℃
Temperature Coefficient of Voc	-(0.35±0.05)%/℃
Temperature Coefficient of Pmax	-(0.45±0.05)%/℃
Maximum System Voltage	1000V DC

STC: irradiance: 1000W/m²; solar spectrum: AM1.5; cell temperature: 25℃.

I-V Curves of 165(34)D UL800



I-V Curves at different irradiance



Advantages:

- ◆ Using high quality tempered glass & aluminum frame
- ◆ Unique process to make modules resistant against wind & snow
- ◆ Convenient installation
- ◆ Design & Packaging according to customer's demand
- ◆ 25-year guarantee of output power

170(34)D UL800 170W Photovoltaic Module

Performance

Rated Power	170W
Tolerance	±3%
Guaranty	Five-year Warranty; 80% power output over 25 years.

Mechanical Characteristics

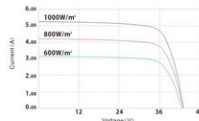
Dimension	1580 mm×800 mm×46mm
Tolerance	±2mm
Weight	17kg
Frame	Aluminum Alloy Frame
Solar Cells	72pcs. of 125 mm×125 mm mono-crystalline silicon solar cells

Electrical Characteristics

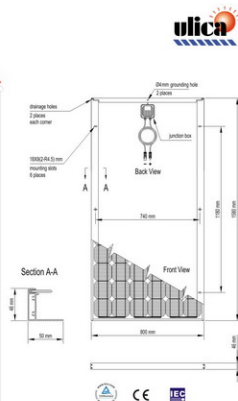
Pmax	170W
Vmp	35.0V
Imp	4.86A
Isc	5.25A
Voc	43.0V
NOCT	47±2℃
Cell Efficiency	15.9%
Module Efficiency	13.4%
Temperature Coefficient of Isc	(0.050±0.015)%/℃
Temperature Coefficient of Voc	-(0.35±0.05)%/℃
Temperature Coefficient of Pmax	-(0.45±0.05)%/℃
Maximum System Voltage	1000V DC

STC: irradiance: 1000W/m²; solar spectrum: AM1.5; cell temperature: 25℃.

I-V Curves of 170(34)D UL800

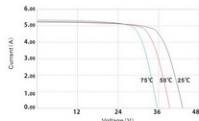


I-V Curves at different irradiance

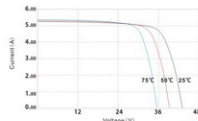


Advantages:

- ◆ Using high quality tempered glass & aluminum frame
- ◆ Unique process to make modules resistant against wind & snow
- ◆ Convenient installation
- ◆ Design & Packaging according to customer's demand
- ◆ 25-year guarantee of output power



I-V Curves at different temperature



I-V Curves at different

175(34)D UL800

175W Photovoltaic Module



Performance

Rated Power	175W
Tolerance	±3%
Guaranty	Five-year Warranty; 80% power output over 25 years.

Mechanical Characteristics

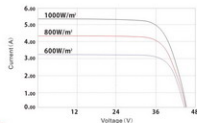
Dimension	1580 mm×800 mm×46mm
Tolerance	±2mm
Weight	17kg
Frame	Aluminum Alloy Frame
Solar Cells	72pcs. of 125 mm×125 mm mono-crystalline silicon solar cells

Electrical Characteristics

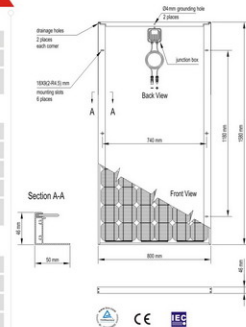
Pmax	175W
Vmp	35.5V
Imp	4.93A
Isc	5.31A
Voc	43.5V
NOCT	47±2℃
Cell Efficiency	16.4%
Module Efficiency	13.8%
Temperature Coefficient of Isc	(0.050±0.015)%/℃
Temperature Coefficient of Voc	-(0.35±0.05)%/℃
Temperature Coefficient of Pmax	-(0.45±0.05)%/℃
Maximum System Voltage	1000V DC

STC: irradiance: 1000W/m²; solar spectrum: AM1.5; cell temperature: 25℃.

I-V Curves of 175(34)D UL800



I-V Curves at different irradiance



Advantages:

- ◆ Using high quality tempered glass & aluminum frame
- ◆ Unique process to make modules resistant against wind & snow
- ◆ Convenient installation
- ◆ Design & Packaging according to customer's demand
- ◆ 25-year guarantee of output power



180(34)D UL800

180W Photovoltaic Module



Performance

Rated Power	180W
Tolerance	±3%
Guaranty	Five-year Warranty; 80% power output over 25 years.

Mechanical Characteristics

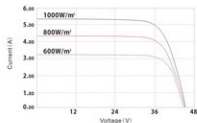
Dimension	1580 mm×800 mm×46mm
Tolerance	±2mm
Weight	17kg
Frame	Aluminum Alloy Frame
Solar Cells	72pcs. of 125 mm×125 mm mono-crystalline silicon solar cells

Electrical Characteristics

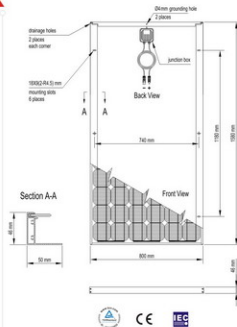
Pmax	180W
Vmp	36.0V
Imp	5.00A
Isc	5.37A
Voc	44.0V
NOCT	47±2℃
Cell Efficiency	16.8%
Module Efficiency	14.2%
Temperature Coefficient of Isc	(0.050±0.015)%/℃
Temperature Coefficient of Voc	-(0.35±0.05)%/℃
Temperature Coefficient of Pmax	-(0.45±0.05)%/℃
Maximum System Voltage	1000V DC

STC: irradiance: 1000W/m²; solar spectrum: AM1.5; cell temperature: 25℃.

I-V Curves of 180(34)D UL800

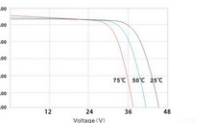


I-V Curves at different irradiance



Advantages:

- ◆ Using high quality tempered glass & aluminum frame
- ◆ Unique process to make modules resistant against wind & snow
- ◆ Convenient installation
- ◆ Design & Packaging according to customer's demand
- ◆ 25-year guarantee of output power



I-V Curves at different temperature

UL-190D-84

190W Photovoltaic Module



Performance

Rated Power	190W
Tolerance	±3%
Guaranty	Five-year Warranty; 80% power output over 25 years.

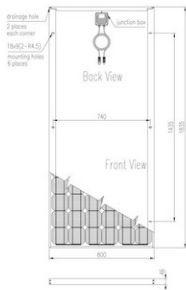
Mechanical Characteristics

Dimension	1835mmx800mmx46mm
Tolerance	±2mm
Weight	18kg
Frame	Aluminum Alloy Frame
Solar Cells	84pcs. of 125 mm×125 mm mono-crystalline silicon solar cells

Electrical Characteristics

Pmax	190W
Vmp	41.0V
Imp	4.63A
Isc	5.12A
Voc	50.4V
NOCT	47±2℃
Cell Efficiency	15.2%
Module Efficiency	12.9%
Temperature Coefficient of Isc	(0.050±0.015)%/℃
Temperature Coefficient of Voc	-(0.35±0.05)%/℃
Temperature Coefficient of Pmax	-(0.45±0.05)%/℃
Maximum System Voltage	1000V DC

STC: irradiance: 1000W/m²; solar spectrum: AM1.5; cell temperature: 25℃.



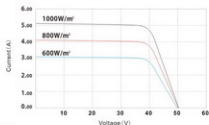
Note:mm



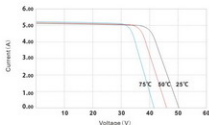
Advantages:

- ◆ Using high quality tempered glass & aluminum frame
- ◆ Unique process to make modules resistant against wind & snow
- ◆ Convenient installation
- ◆ Design & Packaging according to customer's demand
- ◆ 25-year guarantee of output power

I-V Curves of UL-190D-84



I-V Curves at different irradiance



I-V Curves at different temperature

UL-195D-84

195W Photovoltaic Module



Performance

Rated Power	195W
Tolerance	±3%
Guaranty	Five-year Warranty; 80% power output over 25 years.

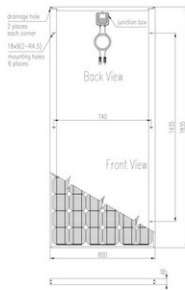
Mechanical Characteristics

Dimension	1835mmx800mmx46mm
Tolerance	±2mm
Weight	18kg
Frame	Aluminum Alloy Frame
Solar Cells	84pcs. of 125 mm×125 mm mono-crystalline silicon solar cells

Electrical Characteristics

Pmax	195W
Vmp	41.0V
Imp	4.76A
Isc	5.19A
Voc	50.4V
NOCT	47±2℃
Cell Efficiency	15.6%
Module Efficiency	13.3%
Temperature Coefficient of Isc	(0.050±0.015)%/℃
Temperature Coefficient of Voc	-(0.35±0.05)%/℃
Temperature Coefficient of Pmax	-(0.45±0.05)%/℃
Maximum System Voltage	1000V DC

STC: irradiance: 1000W/m²; solar spectrum: AM1.5; cell temperature: 25℃.



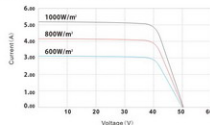
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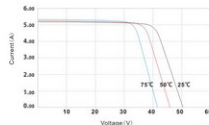
Advantages:

- ◆ Using high quality tempered glass & aluminum frame
- ◆ Unique process to make modules resistant against wind & snow
- ◆ Convenient installation
- ◆ Design & Packaging according to customer's demand
- ◆ 25-year guarantee of output power

I-V Curves of UL-195D-84



I-V Curves at different irradiance



I-V Curves at different temperature

UL-200D-84

200W Photovoltaic Module



Performance

Rated Power	200W
Tolerance	±3%
Guaranty	Five-year Warranty; 80% power output over 25 years.

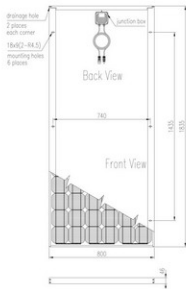
Mechanical Characteristics

Dimension	1835mmx800mmx46mm
Tolerance	±2mm
Weight	18kg
Frame	Aluminum Alloy Frame
Solar Cells	84Pcs. of 125 mm×125 mm mono-crystalline silicon solar cells

Electrical Characteristics

Pmax	200W
Vmp	41.5V
Imp	4.82A
Isc	5.25A
Voc	50.9V
NOCT	47±2°C
Cell Efficiency	16%
Module Efficiency	13.6%
Temperature Coefficient of Isc	(0.050±0.015)%/°C
Temperature Coefficient of Voc	-(0.35±0.05)%/°C
Temperature Coefficient of Pmax	-(0.45±0.05)%/°C
Maximum System Voltage	1000V DC

STC: irradiance: 1000W/m²; solar spectrum: AM1.5; cell temperature: 25°C



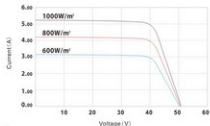
Note:mm



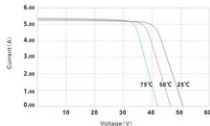
Advantages:

- ◆ Using high quality tempered glass & aluminum frame
- ◆ Unique process to make modules resistant against wind & snow
- ◆ Convenient installation
- ◆ Design & Packaging according to customer's demand
- ◆ 25-year guarantee of output power

I-V Curves of UL-200D-84



I-V Curves at different irradiance



I-V Curves at different temperature

UL-210D-84

210W Photovoltaic Module



Performance

Rated Power	210W
Tolerance	±3%
Guaranty	Five-year Warranty; 80% power output over 25 years.

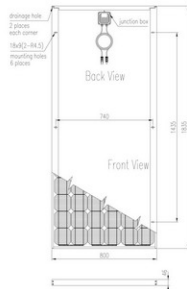
Mechanical Characteristics

Dimension	1835mmx800mmx46mm
Tolerance	±2mm
Weight	18kg
Frame	Aluminum Alloy Frame
Solar Cells	84pcs. of 125 mm×125 mm mono-crystalline silicon solar cells

Electrical Characteristics

Pmax	210W
Vmp	42.5V
Imp	4.94A
Isc	5.37A
Voc	51.9V
NOCT	47±2°C
Cell Efficiency	16.8%
Module Efficiency	14.3%
Temperature Coefficient of Isc	(0.050±0.015)%/°C
Temperature Coefficient of Voc	-(0.35±0.05)%/°C
Temperature Coefficient of Pmax	-(0.45±0.05)%/°C
Maximum System Voltage	1000V DC

STC: irradiance: 1000W/m²; solar spectrum: AM1.5; cell temperature: 25°C



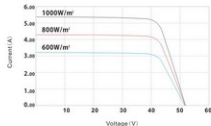
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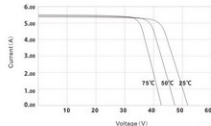
Advantages:

- ◆ Using high quality tempered glass & aluminum frame
- ◆ Unique process to make modules resistant against wind & snow
- ◆ Convenient installation
- ◆ Design & Packaging according to customer's demand
- ◆ 25-year guarantee of output power

I-V Curves of UL-210D-84



I-V Curves at different irradiance



I-V Curves at different temperature

UL-220P-60

220W Photovoltaic Module



Performance

Rated Power	220W
Tolerance	±3%
Guaranty	Five-year Warranty; 80% power output over 25 years.

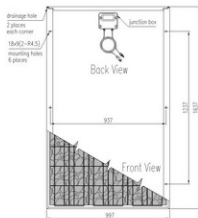
Mechanical Characteristics

Dimension	1637mmx997mmx46mm
Tolerance	±2mm
Weight	19kg
Frame	Aluminum Alloy Frame
Solar Cells	60pcs. of 156mmx156mm poly-crystalline silicon solar cell

Electrical Characteristics

Pmax	220W
Vmp	29.1V
Imp	7.56A
Isc	8.32A
Voc	35.7V
NOCT	47±2℃
Cell Efficiency	15.1%
Module Efficiency	13.5%
Temperature Coefficient of Isc	(0.050±0.015)%/℃
Temperature Coefficient of Voc	-(0.35±0.05)%/℃
Temperature Coefficient of Pmax	-(0.45±0.05)%/℃
Maximum System Voltage	1000V DC

STC: irradiance: 1000W/m²; solar spectrum: AM1.5; cell temperature: 25℃.



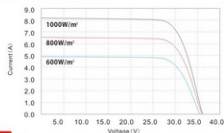
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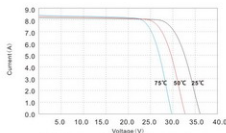
Advantages:

- ◆ Using high quality tempered glass & aluminum frame
- ◆ Unique process to make modules resistant against wind & snow
- ◆ Convenient installation
- ◆ Design & Packaging according to customer's demand
- ◆ 25-year guarantee of output power

I-V Curves of UL-220P-60



I-V Curves at different irradiance



I-V Curves at different temperature

UL-230P-60

230W Photovoltaic Module



Performance

Rated Power	230W
Tolerance	±3%
Guaranty	Five-year Warranty; 80% power output over 25 years.

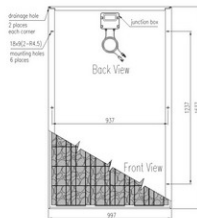
Mechanical Characteristics

Dimension	1637mmx997mmx46mm
Tolerance	±2mm
Weight	19kg
Frame	Aluminum Alloy Frame
Solar Cells	60pcs. of 156mmx156mm poly-crystalline silicon solar cell

Electrical Characteristics

Pmax	230W
Vmp	29.7V
Imp	7.74A
Isc	8.42A
Voc	36.4V
NOCT	47±2℃
Cell Efficiency	15.8%
Module Efficiency	14.1%
Temperature Coefficient of Isc	(0.050±0.015)%/℃
Temperature Coefficient of Voc	-(0.35±0.05)%/℃
Temperature Coefficient of Pmax	-(0.45±0.05)%/℃
Maximum System Voltage	1000V DC

STC: irradiance: 1000W/m²; solar spectrum: AM1.5; cell temperature: 25℃.



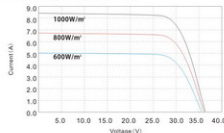
Note:mm



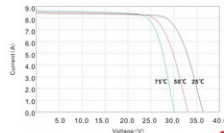
Advantages:

- ◆ Using high quality tempered glass & aluminum frame
- ◆ Unique process to make modules resistant against wind & snow
- ◆ Convenient installation
- ◆ Design & Packaging according to customer's demand
- ◆ 25-year guarantee of output power

I-V Curves of UL-230P-60



I-V Curves at different irradiance



I-V Curves at different temperature

UL-270P-72

270W Photovoltaic Module

Performance

Rated Power	270W
Tolerance	±3%
Guaranty	Five-year Warranty; 80% power output over 25 years.

Mechanical Characteristics

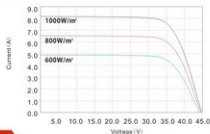
Dimension	1953mmx997mmx46mm
Tolerance	±2mm
Weight	23kg
Frame	Aluminum Alloy Frame
Solar Cells	72pcs. of 156mmx156mm poly-crystalline silicon solar cell

Electrical Characteristics

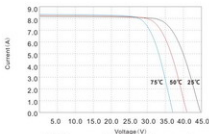
Pmax	270W
Vmp	35.2V
Imp	7.67A
Isc	8.37A
Voc	43.2V
NOCT	47±2℃
Cell Efficiency	15.4%
Module Efficiency	13.9%
Temperature Coefficient of Isc	(0.050±0.015)%/℃
Temperature Coefficient of Voc	-(0.35±0.05)%/℃
Temperature Coefficient of Pmax	-(0.45±0.05)%/℃
Maximum System Voltage	1000V DC

STC: irradiance: 1000W/m²; solar spectrum: AM1.5; cell temperature: 25℃.

I-V Curves of UL-270P-72



I-V Curves at different irradiance



I-V Curves at different temperature



UL-280P-72

280W Photovoltaic Module

Performance

Rated Power	280W
Tolerance	±3%
Guaranty	Five-year Warranty; 80% power output over 25 years.

Mechanical Characteristics

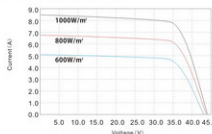
Dimension	1953mmx997mmx46mm
Tolerance	±2mm
Weight	23kg
Frame	Aluminum Alloy Frame
Solar Cells	72pcs. of 156mmx156mm poly-crystalline silicon solar cell

Electrical Characteristics

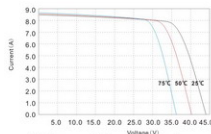
Pmax	280W
Vmp	36V
Imp	7.78A
Isc	8.45A
Voc	44V
NOCT	47±2℃
Cell Efficiency	16.0%
Module Efficiency	14.4%
Temperature Coefficient of Isc	(0.050±0.015)%/℃
Temperature Coefficient of Voc	-(0.35±0.05)%/℃
Temperature Coefficient of Pmax	-(0.45±0.05)%/℃
Maximum System Voltage	1000V DC

STC: irradiance: 1000W/m²; solar spectrum: AM1.5; cell temperature: 25℃.

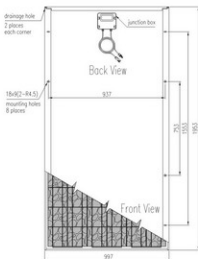
I-V Curves of UL-280P-72



I-V Curves at different irradiance



I-V Curves at different temperature

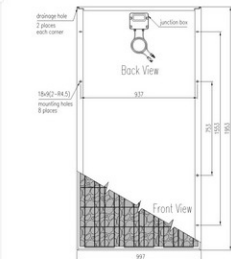


Note:mm



Advantages:

- ◆ Using high quality tempered glass & aluminum frame
- ◆ Unique process to make modules resistant against wind & snow
- ◆ Convenient installation
- ◆ Design & Packaging according to customer's demand
- ◆ 25-year guarantee of output power



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