

AMECSOLAR

M36PCS(MONO)

5W~120W

PRODUCT SPECIFICATION



- Industry leading module power output warranty
- International quality, safety and performance certifications
- Manufacturing facility certified to ISO9001 quality management system standards
- Beautiful appearance, good durability & easy installation
- Special design in accordance with requirements of customers

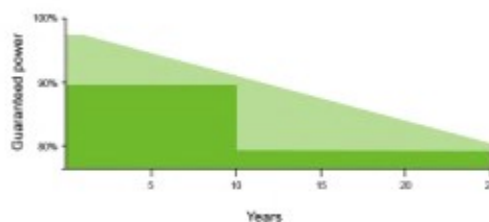
WARRANTIES

12 years for product defects in materials & workmanship

12 years for 90% of warranted minimum power output

25 years for 80% of warranted minimum power output

25 years linear warranty



QUALITY DESIGN | GREAT DURABILITY | EASY INSTALLATION

AMECSOLAR (AMEC GROUP)

No.62 Xinggang Road, Changzhou, Jiangsu, China

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Fax: +86-519-83978999

Email: amecsolar@amecco.com

Website: <http://solar.amecco.com>

M36PCS(MONO) 70W~120W PRODUCT SPECIFICATION

Model type	120W	100W	90W	85W	80W	70W
Peak power(Pmax)	120W	100W	90W	85W	80W	70W
Weight	9.5kg	8.05kg	7.40kg	7.07kg	6.74kg	6.00kg
Dimensions(mm)	1205x670x35	1020x670x35	930x670x35	885x670x35	840x670x35	740x670x35
Maximum power voltage (Vmp)	18.36V	18.36V	18.36V	18.36V	18.36V	18.36V
Maximum power current (Imp.)	6.53A	5.44A	4.9A	4.63A	4.36A	3.81A
Open circuit voltage (Voc)	22.4V	22.4V	22.4V	22.4V	22.4V	22.4V
Short circuit current (Isc)	6.99A	5.83A	5.24A	4.95A	4.66A	4.08A
Cell efficiency	17.3%	17.3%	17.3%	17.3%	17.3%	17.3%
Maximum system voltage	DC 1000V					
Temp.Coeff.of Isc(TK Isc)	0.07%/°C					
Temp.Coeff.of Voc(TK Voc)	-0.36%/°C					
Temp.Coeff.of Pmax(TK Pmax)	-0.38%/°C					
Normal Operating Cell Temperature	45±2°C					
Tolerance	±3%					

M36PCS(MONO) 30W~60W PRODUCT SPECIFICATION

Model type	60W	50W	40W	30W
Peak power(Pmax)	60W	50W	40W	30W
Weight	5.23kg	4.57kg	3.83kg	3.18kg
Dimensions(mm)	640x670x30	550x670x30	450x670x30	360x670x30
Maximum power voltage (Vmp)	18.36V	18.36V	18.36V	18.36V
Maximum power current (Imp.)	3.27A	2.73A	2.18A	1.64A
Open circuit voltage (Voc)	22.4V	22.4V	22.4V	22.4V
Short circuit current (Isc)	3.50A	2.91A	2.33A	1.76A
Cell efficiency	17.3%	17.3%	17.3%	17.3%
Maximum system voltage	DC 1000V			
Temp.Coeff.of Isc(TK Isc)	0.07%/°C			
Temp.Coeff.of Voc(TK Voc)	-0.36%/°C			
Temp.Coeff.of Pmax(TK Pmax)	-0.38%/°C			
Normal Operating Cell Temperature	45±2°C			
Tolerance	±3%			

M36PCS(MONO) 5W~20W PRODUCT SPECIFICATION

Model type	20W	15W	10W	5W
Peak power(Pmax)	20W	15W	10W	5W
Weight	2.05kg	1.65kg	1.03kg	0.71kg
Dimensions(mm)	460x350x25	360x350x25	255x350x17	360x160x17
Maximum power voltage (Vmp)	18.36V	18.36V	18.36V	18.36V
Maximum power current (Imp.)	1.09A	0.82A	0.55A	0.28A
Open circuit voltage (Voc)	22.4V	22.4V	22.4V	22.4V
Short circuit current (Isc)	1.17A	0.88A	0.59A	0.30A
Cell efficiency	17.3%	17.3%	17.3%	17.3%
Maximum system voltage	DC 1000V			
Temp.Coeff.of Isc(TK Isc)	0.07%/°C			
Temp.Coeff.of Voc(TK Voc)	-0.36%/°C			
Temp.Coeff.of Pmax(TK Pmax)	-0.38%/°C			
Normal Operating Cell Temperature	45±2°C			
Tolerance	±3%			

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AMCESOLAR

M36PCS

175W/170W/160W/155W/150W

PRODUCT SPECIFICATION



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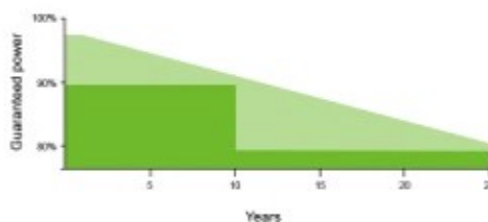
WARRANTIES

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25 years for 80% of warranted minimum power output

25 years linear warranty



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M36PCS 175W/170W/160W/155W/150W PRODUCT SPECIFICATION

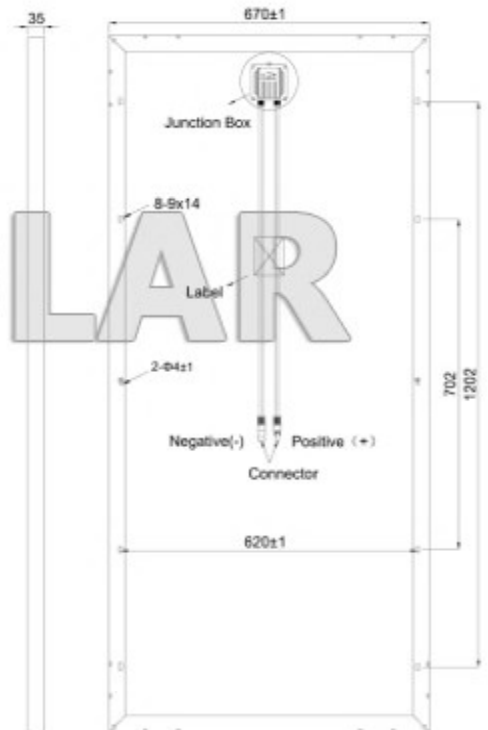
Electrical parameters at standard test conditions
(STC:AM=1.5, 1000W/m², cells Temperature 25°C)

Typical type	175W	170W	160W	155W	150W
Max power(Pmax) w	175	170	160	155	150
Max power voltage(Vmp)	19.56	19.15	18.90	18.68	18.62
Max power current(Imp)	8.95	8.88	8.47	8.30	8.06
Open circuit voltage(Voc)	23.49	22.96	22.65	22.37	22.33
Short circuit current(Isc)	9.49	9.41	8.97	8.79	8.53
Max system voltage	DC1000V				
Cell efficiency(%)	20.75	20.15	19.16	18.56	17.96

Mechanical Data

Dimensions	1480×670×35mm (58.27×26.4×1.38 inch)
Weight	12kgs
Front glass	3.2 mm tempered glass
Output cables	4 mm ² symmetrical lengths 900 mm
Connectors	MC4 compatible IP67
Cell type	Mono crystalline silicon 156mmx156mm
Number of cells	36 cells in series

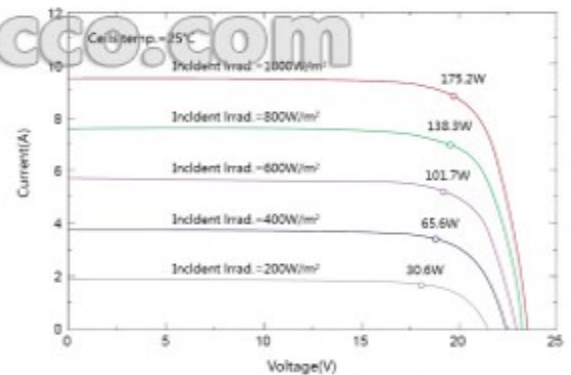
Dimensions and Structure



Temperature Characteristics

Temp.Coeff.of Isc(TK Isc)	0.07% / °C
Temp.Coeff.of Voc(TK Voc)	(-0.36%) / °C
Temp.Coeff.of Pmax(TK Pmax)	(-0.38%) / °C
Operating temperature	(-40~+85%) °C
Normal operating cell temperature	45±2°C

I-V Curve



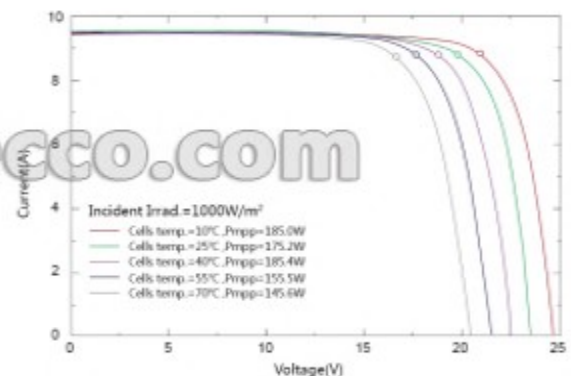
I-V Curves at different irradiance

Packing Configuration

Container	20'GP	40'GP	40'HQ
Pieces per pallet	64	64	80
Pallets per container	7	15	15
Pieces per container	448	960	1200

Tests, Certifications and Warranties

Standard tests	IEC 61215, IEC 61730
System certs	ISO 9001, ISO14001
Certifications	GQC, TÜV, CE, MCS, CEC, CHUBB, PPP58042B, Salt Mist&Ammonia Proof, PID FREE
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Positive tolerance	0~±3%
Junction box	IP65
Warranties	12 years product warranty and 25 years 80% of power



I-V Curves at different temperature

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AMECSOLAR

M60PCS

290W/280W/270W/265W/260W/250W

PRODUCT SPECIFICATION



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- Beautiful appearance, good durability & easy installation
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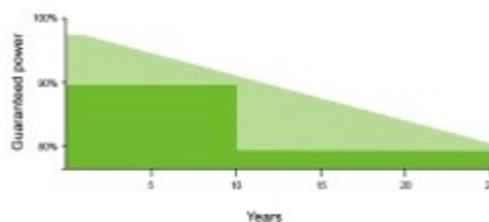
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25 years linear warranty



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M60PCS 290W/280W/270W/265W/260W/250W PRODUCT SPECIFICATION

Electrical parameters at standard test conditions
(STC:AM=1.5, 1000W/m², Cells Temperature 25°C)

Typical type	290W	280W	270W	265W	260W	250W
Max power(Pmax)	290	280	270	265	260	250
Max power voltage(Vmp)	32.44	31.72	31.25	31.11	30.96	30.79
Max power current(Imp)	8.94	8.83	8.64	8.52	8.4	8.12
Open circuit voltage(Voc)	39.11	38.11	37.49	37.32	37.12	36.9
Short circuit current(Isc)	9.54	9.38	9.15	9.02	8.89	8.59
Cell efficiency(%)	20.63	19.92	19.40	19.04	18.68	17.96
Module Efficiency(%)	17.82	17.21	16.60	16.29	15.98	15.37
Max system voltage	DC 1000V(TUV)/600V(UL)					
Maximum Series Fuse Rating	15A					

Mechanical Data

Dimensions	1640×992×35mm (64.57×39.06×1.38 inch)
Weight	18kgs
Front glass	3.2 mm tempered glass
Output cables	4 mm ² symmetrical lengths 900 mm
Connectors	MC4 compatible IP67
Cell type	Mono Crystalline Silicon 156mmx156mm
Number of cells	60 cells in series

Temperature Characteristics

Temp. Coeff. of Isc(TK Isc)	0.07% / °C
Temp. Coeff. of Voc(TK Voc)	(-0.36%) / °C
Temp. Coeff. of Pmax(TK Pmax)	(-0.38%) / °C
Operating temperature	(-40~+85%) °C
Normal operating cell temperature	45±2°C

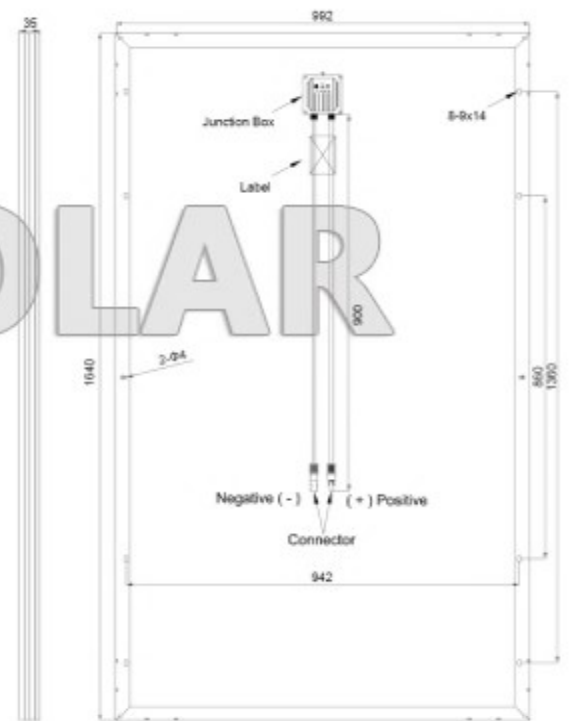
Packing Configuration

Container	20'GP	40'GP	40'HQ
Pieces per pallet	52	52	60
Pallets per container	6	14	14
Pieces per container	312	728	840

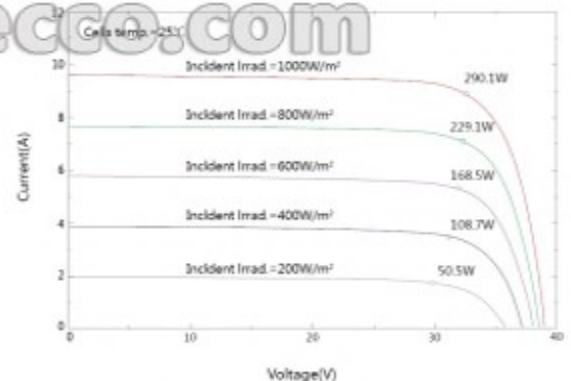
Tests, Certifications and Warranties

Standard tests	IEC 61215, IEC 61730
System certs	ISO 9001, ISO14001
Certifications	CQC, TUV, CE, MCS, CEC, CHUBB, PPP58042B, Salt Mist&Ammonia Proof, PID FREE
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Positive tolerance	0~±3%
Junction box	IP67
Warranties	12 years product warranty and 25 years 80% of power

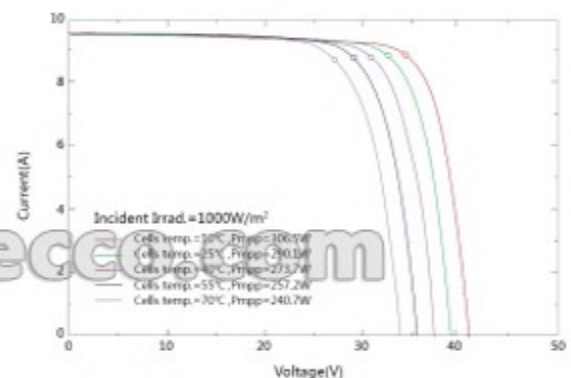
Dimensions and Structure



I-V Curve



I-V Curves at different irradiance



I-V Curves at different temperature

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AMECSOLAR

M72PCS

205W/200W/195W/190W

PRODUCT SPECIFICATION



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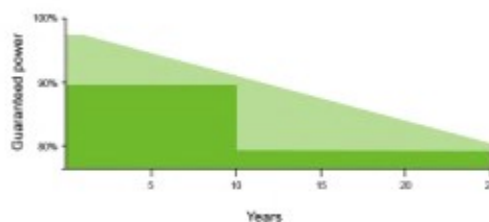
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12 years for 90% of warranted minimum power output

25 years for 80% of warranted minimum power output

25 years linear warranty



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M72PCS 205W/200W/195W/190W PRODUCT SPECIFICATION

Electrical parameters at standard test conditions
(STC:AM=1.5, 1000W/m², Cells Temperature 25°C)

Typical type	205W	200W	195W	190W
Max power(Pmax)	205	200	195	190
Max power voltage(Vmp)	37.8	37.77	37.62	37.44
Max power current(Imp)	5.42	5.29	5.18	5.08
Open circuit voltage(Voc)	45.36	45.25	45.07	44.86
Short circuit current(Isc)	6.12	5.92	5.8	5.68
Cell efficiency(%)	18.75	18.3	17.8	17.3
Module Efficiency(%)	16.06	15.67	15.27	14.88
Max system voltage	DC1000V			
Maximum Series Fuse Rating	15A			

Mechanical Data

Dimensions	1580x808x35mm
Weight	15kgs
Front glass	3.2 mm tempered glass
Output cables	4 mm ² symmetrical lengths 900 mm
Connectors	MC4 compatible IP67
Cell type	Mono Crystalline Silicon 125mmx125mm
Number of cells	72 cells in series

Temperature Characteristics

Temp.Coeff.of Isc(TK Isc)	0.07% / °C
Temp.Coeff.of Voc(TK Voc)	(-0.36%) / °C
Temp.Coeff.of Pmax(TK Pmax)	(-0.38%) / °C
Operating temperature	(-40~+85%) °C
Normal operating cell temperature	45±2°C

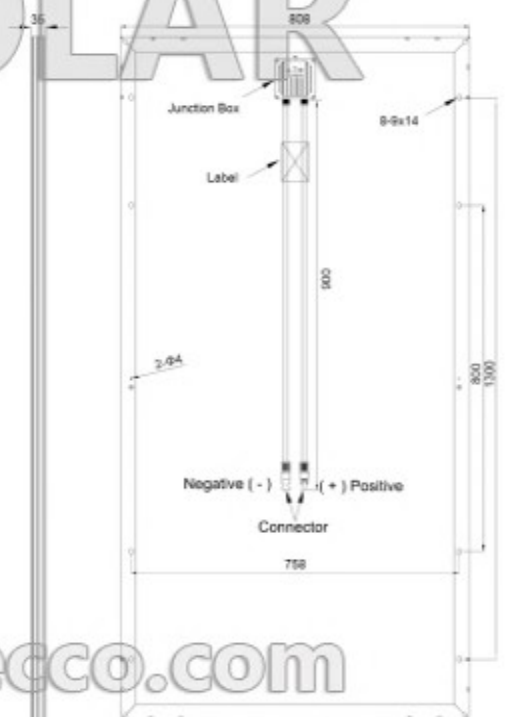
Packing Configuration

Container	20'GP	40'GP	40'HQ
Pieces per pallet	66-52	66	74
Pallets per container	6+1	14	14
Pieces per container	448	924	1036

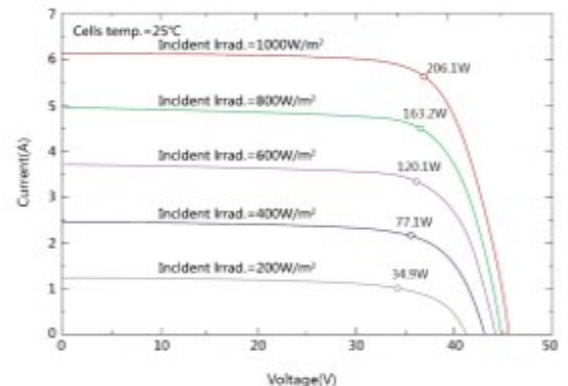
Tests, Certifications and Warranties

Standard tests	IEC 61215, IEC 61730
System certs	ISO 9001, ISO14001
Certifications	CQC, TUV, CE, MCS, CEC, CHUBB, PPP58042B, Salt Mist&Ammonia Proof, PID FREE
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Positive tolerance	0~±3%
Junction box	IP67
Warranties	12 years product warranty and 25 years 80% of power

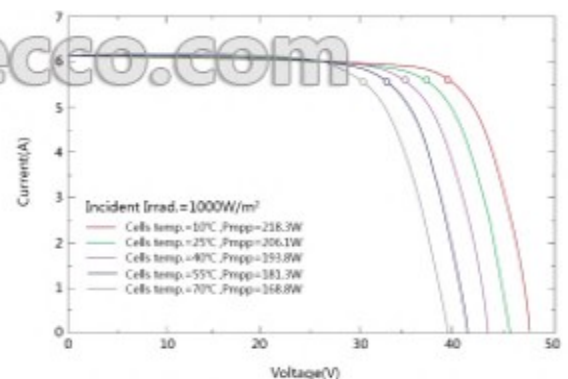
Dimensions and Structure



I-V Curve



I-V Curves at different irradiance



I-V Curves at different temperature

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AMECSOLAR

M60PCS(BLACK)

290W/280W/270W/265W/260W/250W

PRODUCT SPECIFICATION



- Industry leading module power output warranty
- International quality, safety and performance certifications
- Manufacturing facility certified to ISO9001 quality management system standards
- Beautiful appearance, good durability & easy installation
- Special design in accordance with requirements of customers

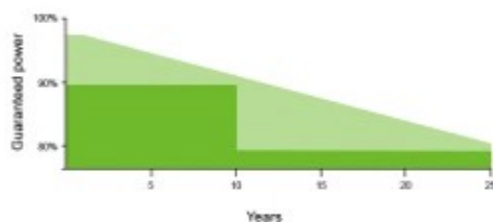
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25 years for 80% of warranted minimum power output

25 years linear warranty



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M60PCS 290W/280W/270W/265W/260W/250W PRODUCT SPECIFICATION

Electrical parameters at standard test conditions
(STC:AM=1.5, 1000W/m², Cells Temperature 25°C)

Typical type	290W	280W	270W	265W	260W	250W
Max power(Pmax)	290	280	270	265	260	250
Max power voltage(Vmp)	32.44	31.72	31.25	31.11	30.96	30.79
Max power current(Imp)	8.94	8.83	8.64	8.52	8.40	8.12
Open circuit voltage(Voc)	39.11	38.11	37.49	37.32	37.12	36.9
Short circuit current(Isc)	9.54	9.38	9.15	9.02	8.89	8.59
Cell efficiency(%)	20.63	19.92	19.40	19.04	18.68	17.96
Module Efficiency(%)	17.82	17.21	16.60	16.29	15.98	15.37
Max system voltage	DC 1000V(TUV)/600V(UL)					
Maximum Series Fuse Rating	15A					

Mechanical Data

Dimensions	1640×992×35mm (64.57×39.06×1.38 inch)
Weight	18kgs
Front glass	3.2 mm tempered glass
Output cables	4 mm ² symmetrical lengths 900 mm
Connectors	MC4 compatible IP67
Cell type	Mono Crystalline Silicon 156mmx156mm
Number of cells	60 cells in series

Temperature Characteristics

Temp.Coeff.of Isc(TK Isc)	0.07% / °C
Temp.Coeff.of Voc(TK Voc)	(-0.36%) / °C
Temp.Coeff.of Pmax(TK Pmax)	(-0.38%) / °C
Operating temperature	(-40~+85%) °C
Normal operating cell temperature	45±2°C

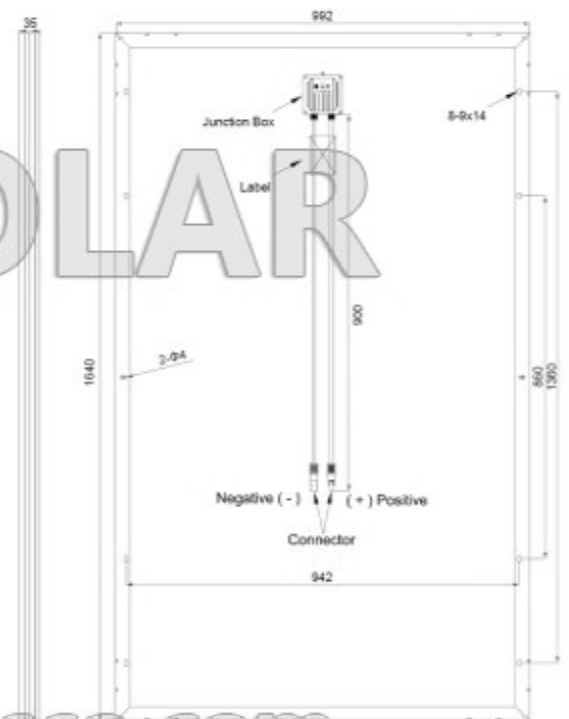
Packing Configuration

Container	20'GP	40'GP	40'HQ
Pieces per pallet	52	52	60
Pallets per container	6	14	14
Pieces per container	312	728	840

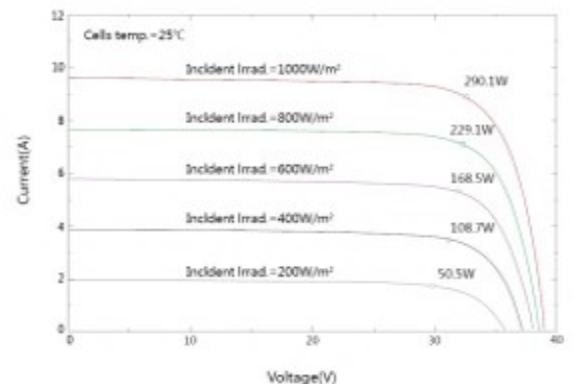
Tests, Certifications and Warranties

Standard tests	IEC 61215, IEC 61730
System certs	ISO 9001, ISO14001
Certifications	CQC,TUV,CE,MCS,CEC,CHUBB,PPP58042B, Salt Mist&Ammonia Proof,PID FREE
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Positive tolerance	0~±3%
Junction box	IP67
Warranties	12 years product warranty and 25 years 80% of power

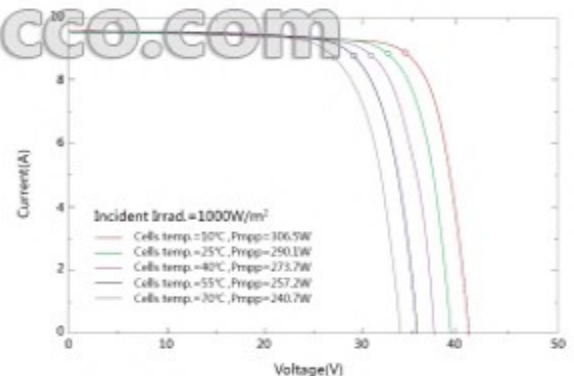
Dimensions and Structure



I-V Curve



I-V Curves at different irradiance



I-V Curves at different temperature

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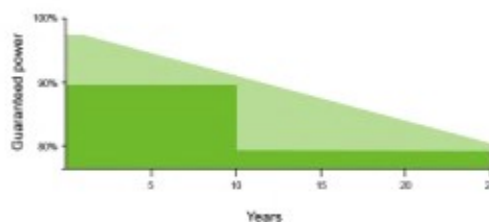
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Electrical parameters at standard test conditions
(STC:AM=1.5, 1000W/m², Cells Temperature 25°C)

Typical type	350W	340W	330W	320W	310W	300W
Max power(Pmax)	350	340	330	320	310	300
Max power voltage(Vmp)	39.11	38.25	37.76	37.61	37.54	37.13
Max power current(Imp)	8.95	8.89	8.74	8.51	8.26	8.08
Open circuit voltage(Voc)	47.24	46.05	45.3	45.10	44.98	44.51
Short circuit current(Isc)	9.56	9.46	9.26	9.01	8.75	8.54
Cell efficiency(%)	20.75	20.15	19.56	18.97	18.40	17.78
Module Efficiency(%)	18.03	17.52	17	16.50	16.00	15.46
Max system voltage	DC 1000V(TUV)/600V(UL)					
Maximum Series Fuse Rating	15A					

Mechanical Data

Dimensions	1956×992×40mm (77.01×39.06×1.58 inch)
Weight	22kgs
Front glass	3.2 mm tempered glass
Output cables	4 mm ² symmetrical lengths 900 mm
Connectors	MC4 compatible IP67
Cell type	Mono Crystalline Silicon 156mmx156mm
Number of cells	72 cells in series

Temperature Characteristics

Temp.Coeff.of Isc(TK Isc)	0.07% / °C
Temp.Coeff.of Voc(TK Voc)	(-0.36%) / °C
Temp.Coeff.of Pmax(TK Pmax)	(-0.38%) / °C
Operating temperature	(-40~+85%) °C
Normal operating cell temperature	45±2°C

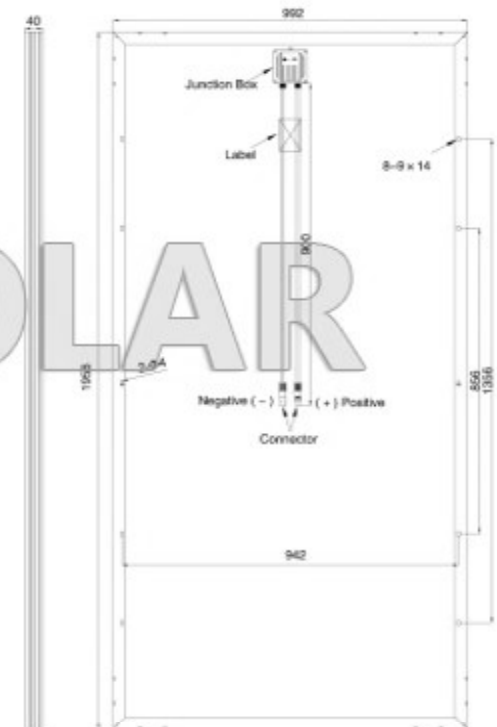
Packing Configuration

Container	20'GP	40'GP	40'HQ
Pieces per pallet	48	48	58
Pallets per container	5	11	11
Pieces per container	240	528	638

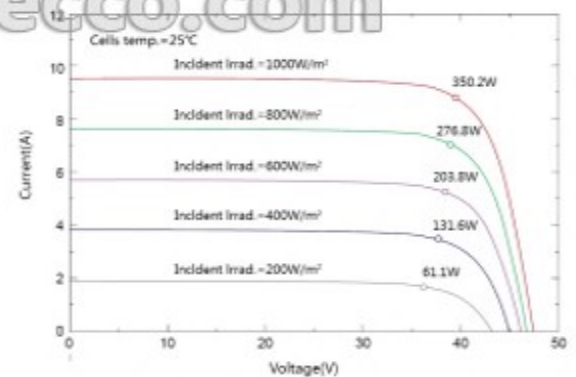
Tests, Certifications and Warranties

Standard tests	IEC 61215, IEC 61730
System certs	ISO 9001, ISO14001
Certifications	CQC, TUV, CE, MCS, CEC, CHUBB, PPP58042B, Salt Mist & Ammonia Proof, PID FREE
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Positive tolerance	0~±3%
Junction box	IP67
Warranties	12 years product warranty and 25 years 80% of power

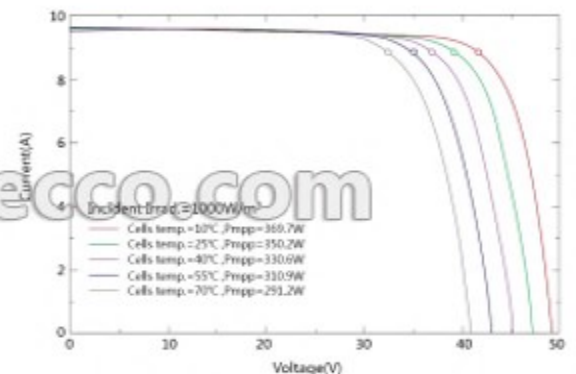
Dimensions and Structure



I-V Curve



I-V Curves at different irradiance



I-V Curves at different temperature

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