

AMECSOLAR

P36PCS(POLY)

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

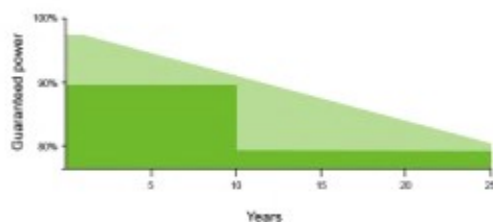
WARRANTIES

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

Tel: +86-519-83978050

Fax: +86-519-83978999

Email: amecsolar@amecco.com

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

P36PCS(POLY) 70W~120W PRODUCT SPECIFICATION

Model type	120W	110W	100W	90W	85W	80W	75W	70W
Peak power(Pmax)	120W	110W	100W	90W	85W	80W	75W	70W
Weight	9.5kg	8.75kg	8.05kg	7.40kg	7.07kg	6.74kg	6.29kg	6.00kg
Dimensions(mm)	1205x670x35	1116x670x35	1020x670x35	930x670x35	885x670x35	840x670x35	775x670x35	740x670x35
Maximum power voltage (Vmp)	18.36V	18.36V	18.36V	18.36V	18.36V	18.36V	18.36V	18.36V
Maximum power current (Imp)	6.53A	5.99A	5.44A	4.9A	4.63A	4.36A	4.09A	3.81A
Open circuit voltage (Voc)	22.4V	22.4V	22.4V	22.4V	22.4V	22.4V	22.4V	22.4V
Short circuit current (Isc)	6.99A	6.41A	5.83A	5.24A	4.95A	4.66A	4.38A	4.08A
Cell efficiency	17.30%	17.30%	17.30%	17.30%	17.30%	17.30%	17.30%	17.30%
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%							

P36PCS(POLY) 30W~60W PRODUCT SPECIFICATION

Model type	60W	55W	50W	45W	40W	30W
Peak power(Pmax)	60W	55W	50W	45W	40W	30W
Weight	5.23kg	4.90kg	4.57kg	4.17kg	3.83kg	3.18kg
Dimensions(mm)	640x670x30	595x670x30	550x670x30	495x670x30	450x670x30	360x670x30
Maximum power voltage (Vmp)	18.36V	18.36V	18.36V	18.36V	18.36V	18.36V
Maximum power current (Imp)	3.27A	3.00A	2.73A	2.45A	2.18A	1.64A
Open circuit voltage (Voc)	22.4V	22.4V	22.4V	22.4V	22.4V	22.4V
Short circuit current (Isc)	3.50A	3.21A	2.91A	2.62A	2.33A	1.76A
Cell efficiency	17.30%	17.30%	17.30%	17.30%	17.30%	17.30%
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%					

P36PCS(POLY) 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	17.30%	17.30%	17.30%	17.30%
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%			

AMECSOLAR (AMEC GROUP)

No.62 Xinggang Road, Changzhou, Jiangsu, China

Tel: +86-519-83978050 Fax: +86-519-83978999

Email: amecsolar@amecco.com Website: <http://solar.amecco.com>

AMECSOLAR

P36PCS

170W/165W/160W/155W/150W

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

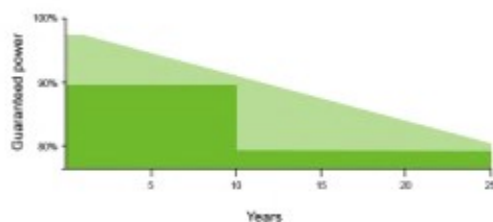
WARRANTIES

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 Xingang Road, Changzhou, Jiangsu, China

Tel: +86-519-83978050

Fax: +86-519-83978999

Email: amecsolar@amecco.com

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

P36PCS 170W/165W/160W/155W/150W PRODUCT SPECIFICATION

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

Typical type	170W	165W	160W	155W	150W
Max power(Pmax) w	170	165	160	155	150W
Max power voltage(Vmp)	19.48	19.08	18.81	18.44	18.25
Max power current(Imp)	8.73	8.65	8.51	8.41	8.22
Open circuit voltage(Voc)	23.44	22.92	22.56	22.1	21.87
Short circuit current(Isc)	9.27	9.17	9.02	8.92	8.72
Max system voltage	DC1000V				
Cell efficiency(%)	19.79	19.21	18.62	18.22	17.64

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	Poly crystalline silicon 156mmx156mm
Number of cells	36 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

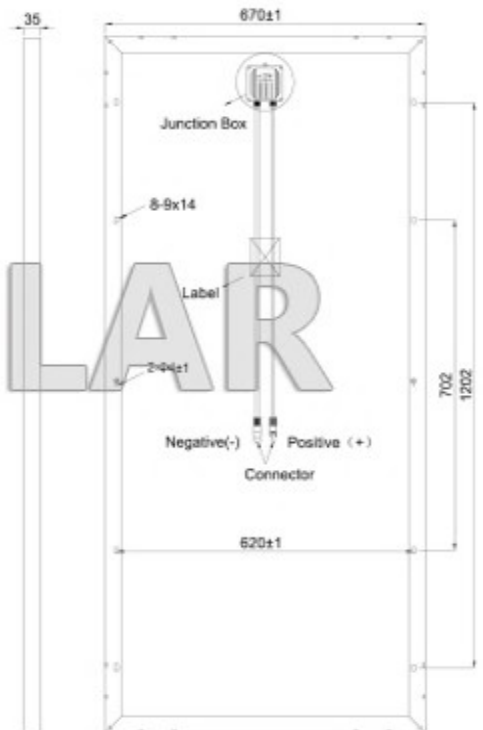
Packing Configuration

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

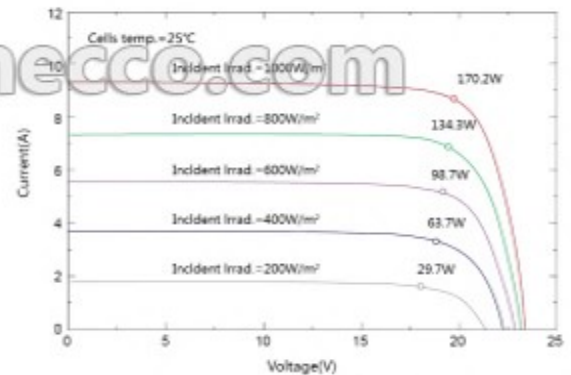
Tests, Certifications and Warranties

Standard tests	IEC 61215, IEC 61730
System certs	ISO 9001, ISO14001
Certifications	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	IP65
Warranties	12 years product warranty and 25 years 80% of power

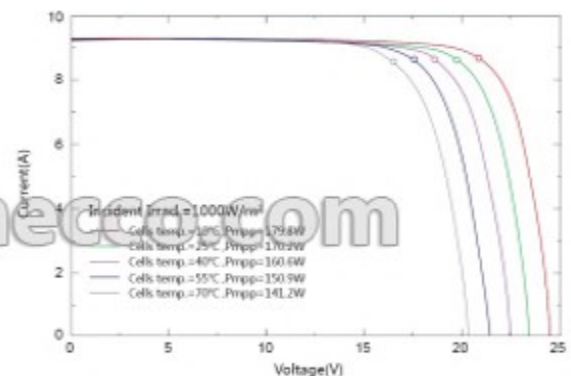
Dimensions and Structure



I-V Curve



I-V Curves at different irradiance



I-V Curves at different temperature

AMECSOLAR (AMEC GROUP)

No.62 Xinggang Road, Changzhou, Jiangsu, China

Tel: +86-519-83978050

Fax: +86-519-83978999

Email: amecsolar@amecco.com

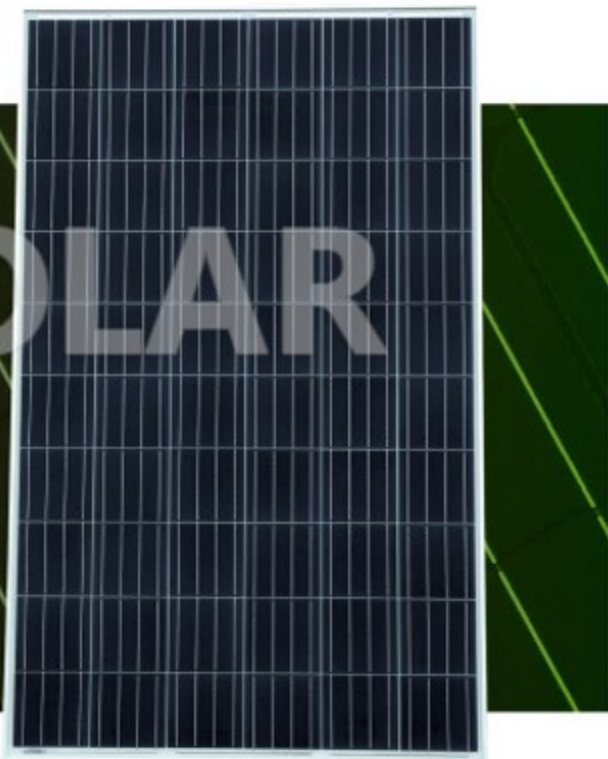
Website: <http://solar.amecco.com>

AMECSOLAR

P60PCS

280W/270W/265W/260W/255W/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

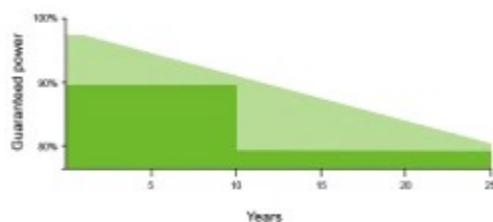
WARRANTIES

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 Xingang Road, Changzhou, Jiangsu, China

Tel: +86-519-83978050

Fax: +86-519-83978999

Email: amecsolar@amecco.com

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

P60PCS 280W/270W/265W/260W/255W/250W PRODUCT SPECIFICATION

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

Typical type	280W	270W	265W	260W	255W	250W
Max power(Pmax)	280	270	265	260	255	250
Max power voltage(Vmp)	32.15	31.47	31.12	30.82	30.73	30.65
Max power current(Imp)	8.71	8.58	8.52	8.44	8.3	8.16
Open circuit voltage(Voc)	38.76	37.81	37.33	36.97	36.85	36.75
Short circuit current(Isc)	9.28	9.11	9.03	8.94	8.79	8.64
Cell efficiency(%)	19.55	18.86	18.51	18.34	17.98	17.60
Module Efficiency(%)	17.21	16.59	16.28	15.98	15.67	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	Poly 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

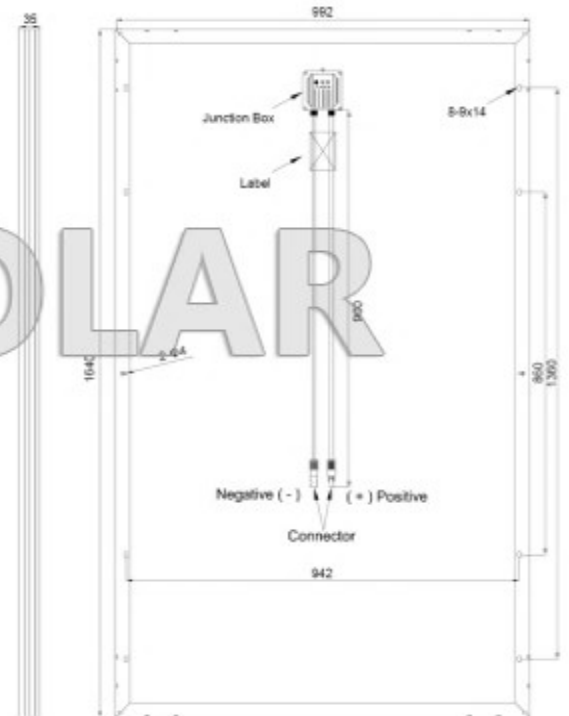
Packing Configuration

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

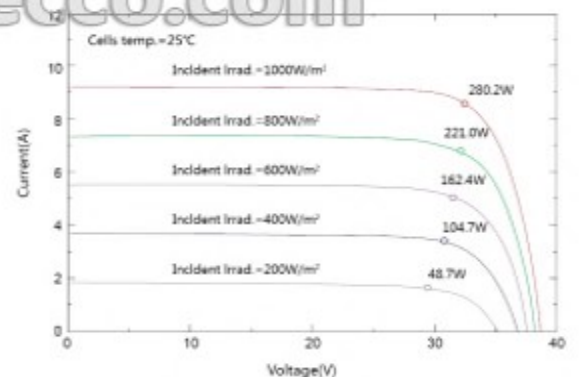
Tests, Certifications and Warranties

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

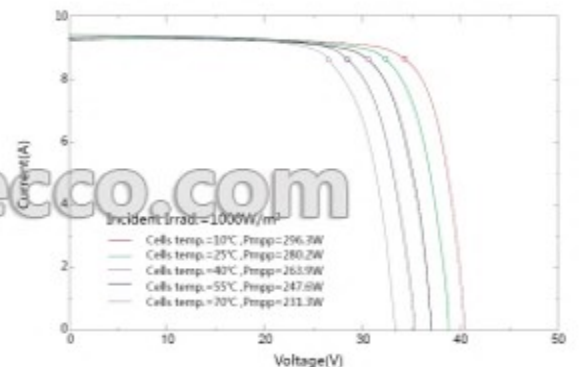
Dimensions and Structure



I-V Curve



I-V Curves at different irradiance



I-V Curves at different temperature

AMECSOLAR (AMEC GROUP)

No.62 Xinggong Road, Changzhou, Jiangsu, China

Tel: +86-519-83978050 Fax: +86-519-83978999

Email: amecsolar@amecco.com Website: <http://solar.amecco.com>

AMECSOLAR

P72PCS

340W/330W/325W/320W

315W/310W/300W

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

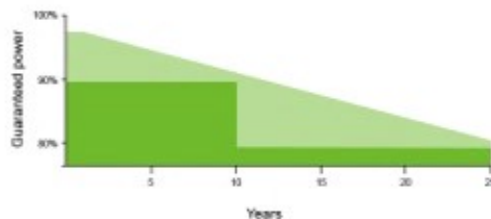
WARRANTIES

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

Tel: +86-519-83978050

Fax: +86-519-83978999

Email: amecsolar@amecco.com

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

P72PCS 340W/330W/325W/320W/315W/310W/300W PRODUCT SPECIFICATION

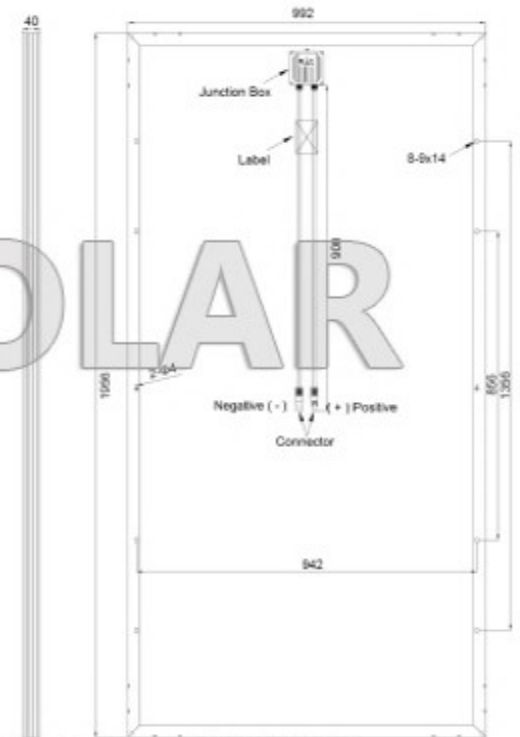
Electrical parameters at standard test conditions
(STC:AM=1.5, 1000W/m², Cells Temperature 25°C)

Typical type	340W	330W	325W	320W	315W	310W	300W
Max power(Pmax)	340	330	325	320	315	310	300
Max power voltage(Vmp)	38.95	38.16	37.84	37.62	37.55	37.45	37.18
Max power current(Imp)	8.73	8.65	8.59	8.51	8.39	8.28	8.07
Open circuit voltage(Voc)	47.11	46.00	45.54	45.20	45.04	44.91	44.57
Short circuit current(Isc)	9.34	9.22	9.13	9.03	8.89	8.77	8.54
Cell efficiency(%)	19.79	19.21	18.91	18.62	18.33	18.20	17.60
Module Efficiency(%)	17.52	17	16.74	16.49	16.23	15.97	15.46
Max system voltage	DC 1000V(TUV)/600V(UL)						
Maximum Series Fuse Rating	15A						

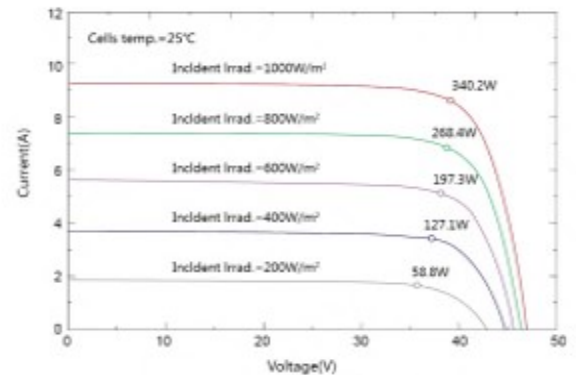
Mechanical Data

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	Poly Crystalline Silicon 156mm×156mm
Number of cells	72 cells in series

Dimensions and Structure



I-V Curve



I-V Curves at different irradiance

Temperature Characteristics

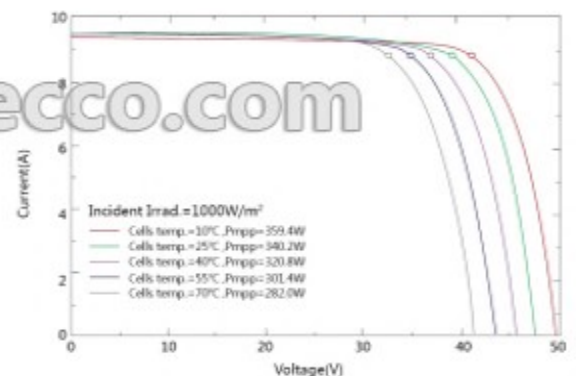
Temp. Coeff. of Isc(TK Isc)	0.07% / °C
Temp. Coeff. of Voc(TK Voc)	(-0.36%) / °C
Temp. Coeff. of Pmax(TK Pmax)	(-0.38%) / °C
Operating temperature	(-40~+85%) °C
Normal operating cell temperature	45±2°C

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



I-V Curves at different temperature

AMECSOLAR (AMEC GROUP)

No.62 Xinggang Road, Changzhou, Jiangsu, China

Tel: +86-519-83978050 Fax: +86-519-83978999

Email: amecsolar@amecco.com Website: <http://solar.amecco.com>