460-480W

KSM-460-480/120-S5

Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.

PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.(Potential Induced Degradation) under the test conditions.

High Efficiency

Higher module conversion efficiency(up to 22.24%) benefit from half cell structure(low resistance characteristic).

Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.

Severe Weather Resilience

Certified to withstand:Wind load(2400 pascal) and snow load(5400 pascal).

12-year Warranty for Materials and Processing

30-year Warranty for Extra Linear Power Output

IEC61215, IEC61730, IEC61701, IEC62716,IEC62804

ISO 9001:2015: ISO Quality Management System

ISO 14001: 2015: ISO Environment Management System

ISO 45001: 2018: ISO Occupational Health and Safety Management Systems

KSM-460-480/120-S5

460-480W

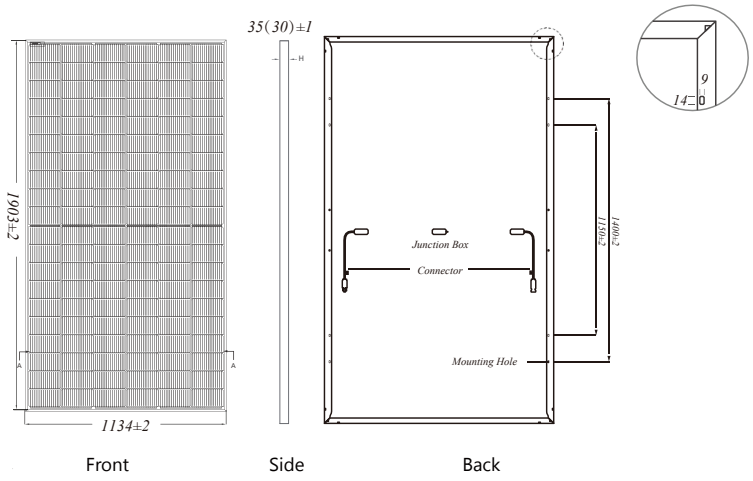
Half-Cell High Efficiency PV Module

Weight
24.2kg±3%

Cells Type
TOPCon 182-16BB

Dimension(LxWxT)
1903×1134×35(30)mm

Packaging
31/744pcs 37/888pcs



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	120(6x20)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm²(IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	25A
Maximum StaticLoad,Front	5400Pa(112lb/ft²)
Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Safety Class	ClassⅡ

ELECTRICAL CHARACTERISTICS

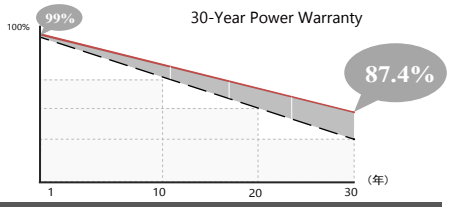
STC:AM1.5 1000W/m² 25℃ NOCT:AM1.5 800W/m² 20℃ 1m/s Test uncertainty for Pmax ±3%

Module Type	KSM-460/120-S5		KSM-465/120-S5		KSM-470/120-S5		KSM-475/120-S5		KSM-480/120-S5	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	460	346	465	350	470	353	475	357	480	361
Open Circuit Voltage(Voc/V)	42.05	39.93	42.22	40.09	42.38	40.25	42.54	40.40	42.71	40.56
Short Circuit Current(Isc/A)	13.99	11.29	14.07	11.35	14.15	11.42	14.23	11.48	14.31	11.55
Voltage at Maximum Power(Vmp/V)	34.72	32.62	34.89	32.78	35.05	32.95	35.21	33.11	35.38	33.27
Current at Maximum Power(Imp/A)	13.25	10.60	13.33	10.66	13.41	10.72	13.49	10.78	13.57	10.84
Module Efficiency(%)	21.32		21.55		21.78		22.01		22.24	

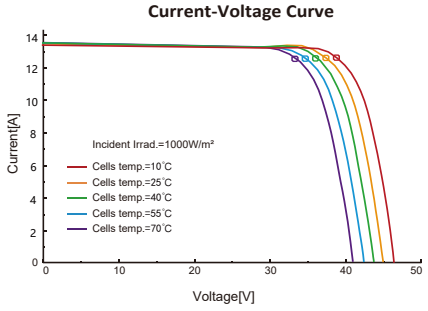
TEMPERATURE RATINGS

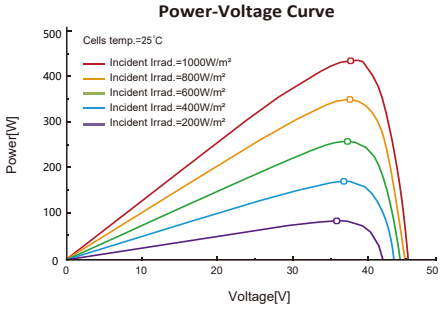
Norminal Operating Cell Temperature(NOCT)	45±2℃
Temperature Coefficient of Isc	+0.045%/℃
Temperature Coefficient of Voc	-0.275%/℃
Temperature Coefficient of Pmax	-0.350%/℃

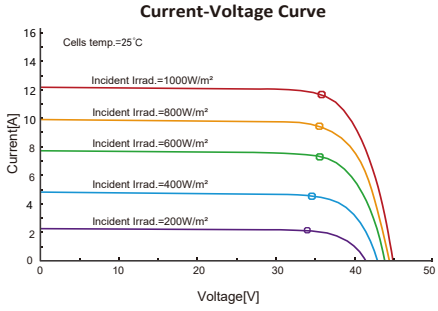
ADDITIONAL VALUE



I-V CURVE(KSM-460-480/120-S5)







565-585W

KSM-565-585/144-S5

Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.

PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.(Potential Induced Degradation) under the test conditions.

High Efficiency

Higher module conversion efficiency(up to 22.64%) benefit from half cell structure(low resistance characteristic).

Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.

Severe Weather Resilience

Certified to withstand:Wind load(2400 pascal) and snow load(5400 pascal).

12-year Warranty for Materials and Processing

30-year Warranty for Extra Linear Power Output

IEC61215, IEC61730, IEC61701, IEC62716,IEC62804

ISO 9001:2015: ISO Quality Management System

ISO 14001: 2015: ISO Environment Management System

ISO 45001: 2018: ISO Occupational Health and Safety Management Systems

KSM-565-585/144-S5

565-585W

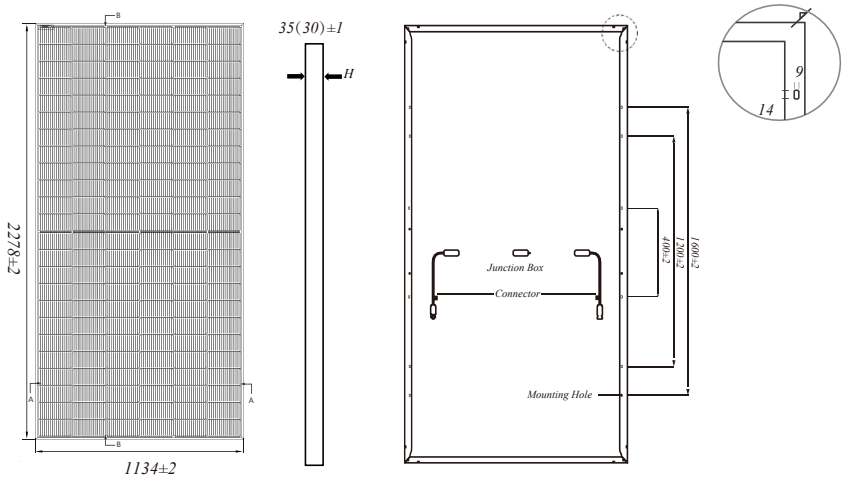
Half-Cell High Efficiency
PV Module

Weight
28.0kg±3%

Cells Type
TOPCon 182-16BB

Dimension(LxWxT)
2278×1134×35(30)mm

Packaging
31/620pcs 37/740pcs



Front Side Back

Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	144(6x24)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm²(IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	25A
Maximum StaticLoad,Front	5400Pa(112lb/ft²)
Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Safety Class	ClassⅡ

ELECTRICAL CHARACTERISTICS

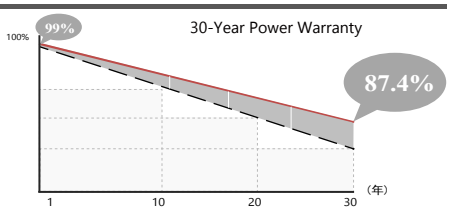
STC:AM1.5 1000W/m² 25℃ NOCT:AM1.5 800W/m² 20℃ 1m/s Test uncertainty for Pmax ±3%

Module Type	KSM-565/144-S5		KSM-570/144-S5		KSM-575/144-S5		KSM-580/144-S5		KSM-585/144-S5	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	565	425	570	429	575	433	580	436	585	440
Open Circuit Voltage(Voc/V)	50.60	48.05	50.74	48.15	50.88	48.29	51.02	48.42	51.16	48.55
Short Circuit Current(Isc/A)	14.23	11.51	14.31	11.55	14.39	11.62	14.47	11.68	14.55	11.74
Voltage at Maximum Power(Vmp/V)	41.92	39.46	42.07	39.59	42.22	39.68	42.37	39.75	42.52	39.87
Current at Maximum Power(Imp/A)	13.48	10.76	13.55	10.85	13.62	10.92	13.69	10.98	13.76	11.04
Module Efficiency(%)	21.87		22.06		22.25		22.44		22.64	

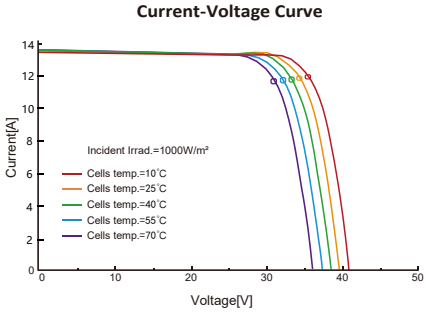
TEMPERATURE RATINGS

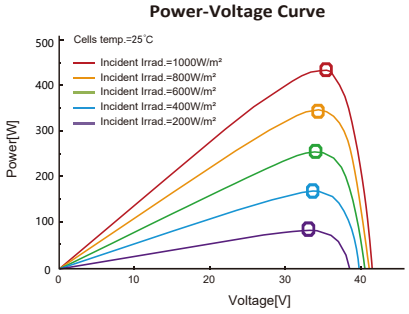
Norminal Operating Cell Temperature(NOCT)	45±2℃
Temperature Coefficient of Isc	+0.045%/℃
Temperature Coefficient of Voc	-0.275%/℃
Temperature Coefficient of Pmax	-0.350%/℃

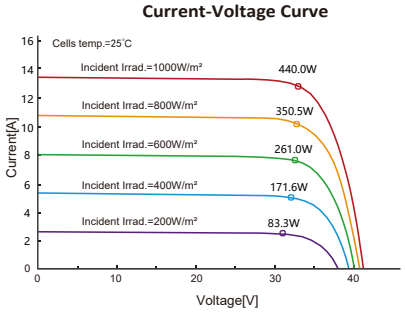
ADDITIONAL VALUE



I-V CURVE(KSM-565-585/144-S5)







610-630W

KSM-610-630/156-S5

Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.

PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.(Potential Induced Degradation) under the test conditions.

High Efficiency

Higher module conversion efficiency(up to 22.62%) benefit from half cell structure(low resistance characteristic).

Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.

Severe Weather Resilience

Certified to withstand:Wind load(2400 pascal) and snow load(5400 pascal).

12-year Warranty for Materials and Processing

30-year Warranty for Extra Linear Power Output

IEC61215, IEC61730, IEC61701, IEC62716,IEC62804

ISO 9001:2015: ISO Quality Management System

ISO 14001: 2015: ISO Environment Management System

ISO 45001: 2018: ISO Occupational Health and Safety Management Systems

KSM-610-630/156-S5

610-630W

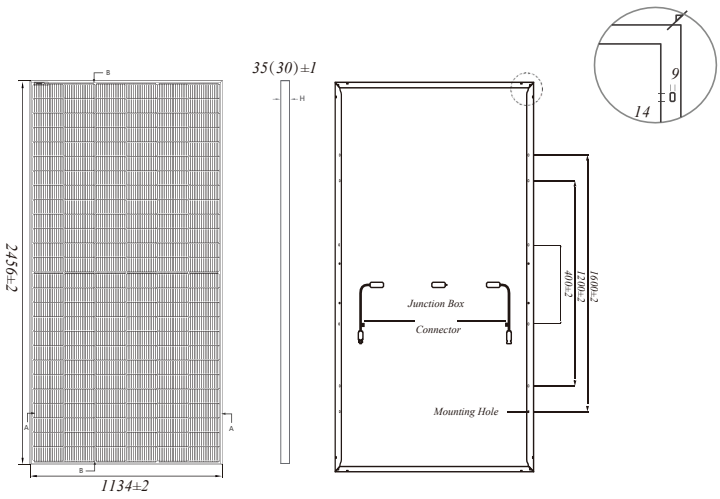
Half-Cell High Efficiency PV Module

Weight
34.6kg±3%

Cells Type
TOPCon 182-16BB

Dimension(LxWxT)
2456×1134×35(30)mm

Packaging
30/660pcs 35/770pcs



Front Side Back

Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	n-type mono-crystalline
No.of cells	156 (2×78)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm²(IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	30A
Maximum StaticLoad,Front	5400Pa(112lb/ft²)
Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Safety Class	ClassⅡ

ELECTRICAL CHARACTERISTICS

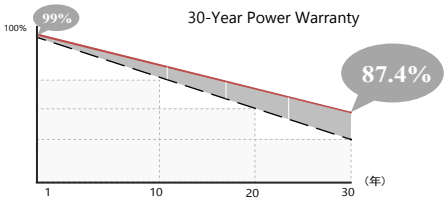
STC:AM1.5 1000W/m² 25℃ NOCT:AM1.5 800W/m² 20℃ 1m/s Test uncertainty for Pmax ±3%

Module Type	KSM-610/156-S5		KSM-615/156-S5		KSM-620/156-S5		KSM-625/156-S5		KSM-630/156-S5	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	610	459	615	462	620	466	625	470	630	474
Open Circuit Voltage(Voc/V)	55.25	52.46	55.40	52.60	55.55	52.75	55.70	52.89	55.85	53.03
Short Circuit Current(Isc/A)	14.11	11.40	14.18	11.46	14.25	11.52	14.32	11.57	14.39	11.63
Voltage at Maximum Power(Vmp/V)	45.59	42.26	45.69	42.39	45.79	42.53	45.92	42.66	46.02	42.79
Current at Maximum Power(Imp/A)	13.38	10.85	13.46	10.90	13.57	10.96	13.61	11.01	13.69	11.07
Module Efficiency(%)	21.90		22.08		22.27		22.44		22.62	

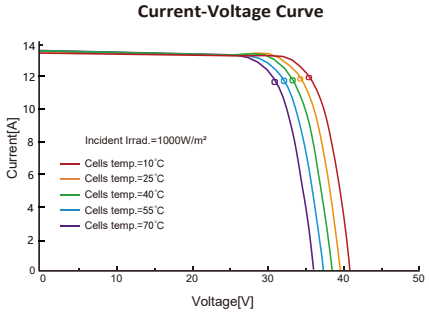
TEMPERATURE RATINGS

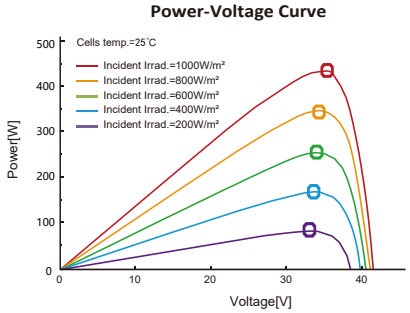
Norminal Operating Cell Temperature(NOCT)	45±2℃
Temperature Coefficient of Isc	+0.045%/℃
Temperature Coefficient of Voc	-0.275%/℃
Temperature Coefficient of Pmax	-0.350%/℃

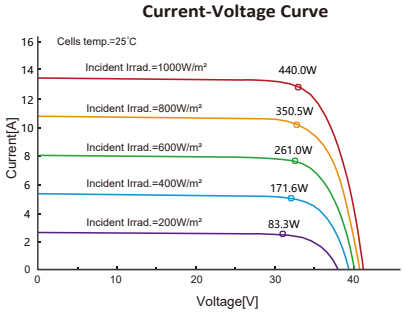
ADDITIONAL VALUE



I-V CURVE(KSM-610-630/156-S5)



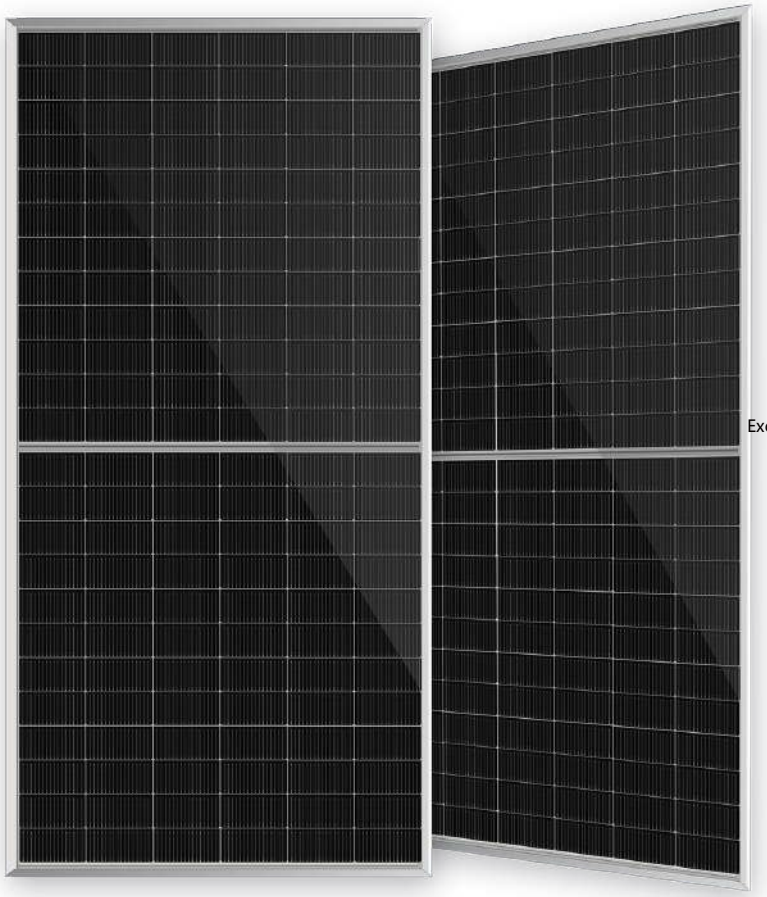




560-580W

KSM-560-580/144-S5S

BIFACIAL MONO PERC



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.

PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.(Potential Induced Degradation) under the test conditions.

High Efficiency

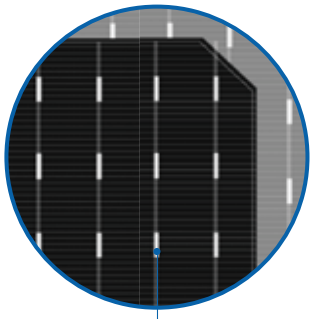
Higher module conversion efficiency(up to 22.44%) benefit from half cell structure(low resistance characteristic).

Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.

Severe Weather Resilience

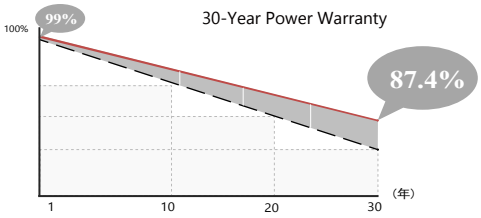
Certified to withstand:Wind load(2400 pascal) and snow load(5400 pascal).



Double-sided cell technology

12-year Warranty for Materials and Processing

30-year Warranty for Extra Linear Power Output



IEC61215, IEC61730, IEC61701, IEC62716,IEC62804

ISO 9001:2015: ISO Quality Management System

ISO 14001: 2015: ISO Environment Management System

ISO 45001: 2018: ISO Occupational Health and Safety Management Systems

KSM-560-580/144-S5S

560-580W

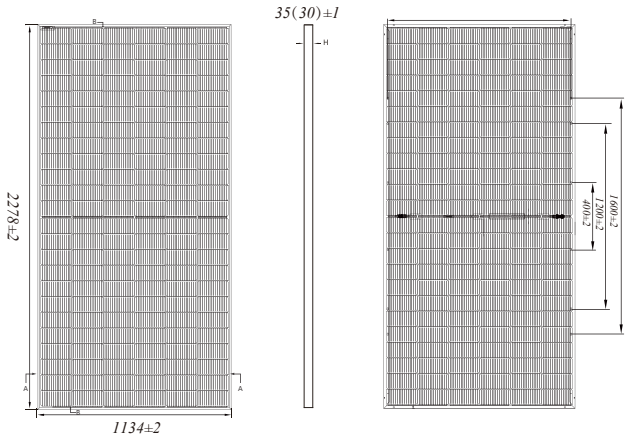
Half-Cell High Efficiency PV Module

Weight
32.0kg±3%

Cells Type
TOPCon 182-16BB

Dimension(LxWxT)
2278×1134×35(30)mm

Packaging
31/620pcs 37/740pcs



Front Side Back

Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	Mono
No.of cells	144(2x72)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm²(IEC)
Junction Box	IP68,3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	25A
Maximum StaticLoad,Front	5400Pa(112lb/ft²)
Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Safety Class	ClassⅡ

ELECTRICAL CHARACTERISTICS

STC:AM1.5 1000W/m² 25℃ NOCT:AM1.5 800W/m² 20℃ 1m/s Test uncertainty for Pmax ±3%

Module Type	KSM-560/144-S5S		KSM-565/144-S5S		KSM-570/144-S5S		KSM-575/144-S5S		KSM-580/144-S5S	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	560	421	565	425	570	429	575	432	580	436
Open Circuit Voltage(Voc/V)	50.67	48.11	50.87	48.30	51.07	48.49	51.27	48.68	51.47	48.87
Short Circuit Current(Isc/A)	14.13	11.43	14.19	11.47	14.25	11.52	14.31	11.57	14.37	11.60
Voltage at Maximum Power(Vmp/V)	41.95	39.31	42.14	39.49	42.29	39.70	42.44	39.85	42.59	40.08
Current at Maximum Power(Imp/A)	13.35	10.71	13.41	10.75	13.48	10.80	13.55	10.85	13.62	10.88
Module Efficiency(%)	21.68		21.87		22.06		22.25		22.44	

ELECTRICAL CHARACTERISTICS WITHDIFFERENT REAR SIDE POWER GAINS

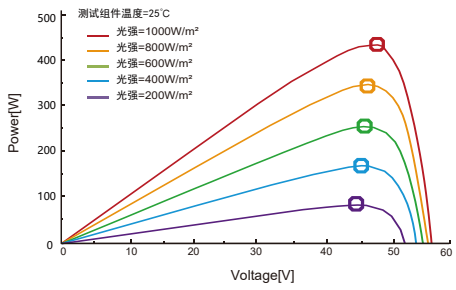
(REFERENCEDSPECIFICALLY TO 540WP FRONT)					
Maximum Power(Pmax/W)	5%	10%	15%	20%	25%
Maximum Power(Pmax/W)	572	600	627	654	681
Pmax Gain(%)	22.07%	23.16%	24.20%	25.24%	25.28%

TEMPERATURE RATINGS

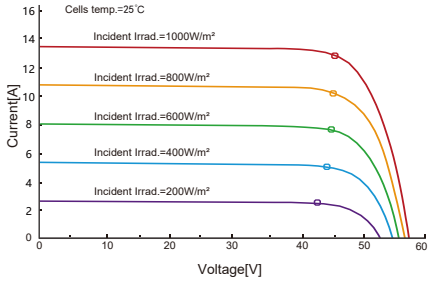
Norminal Operating Cell Temperature(NOCT)	45±2℃
Temperature Coefficiency of Isc	+0.048%/℃
Temperature Coefficiency of Voc	-0.280%/℃
Temperature Coefficiency of Pmax	-0.350%/℃

I-V CURVE(KSM-560-580/144-S5S)

Power-Voltage Curve



Current-Voltage Curve



Isc、Voc、Pmax-Temperature Curve