

365~395W

KSM-365-395/120-S2



Higher module conversion efficiency(up to 21.68%) benefit from half cell structure(low resistance characteristic).



PID Resistance

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



Low-light Performance

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



Severe Weather Resilience

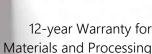
Certified to withstand:Wind load(2400 pascal) and snow load(5400 pascal).



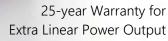
bility Against Extreme Environmental Conditions

gh salt mist and ammonia resistance certified by TUV NORD.

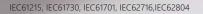


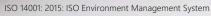
































KSM-365-395/120-S2

365-395W

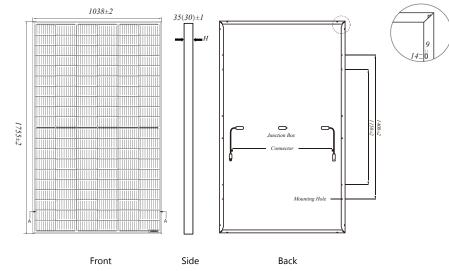
Half-Cell High Efficiency PV Module

Weight 20.5kgs±3%

Cells Type Mono 166-9BB

Dimension(LxWxT) 1755x1038x35(30)mm

Packaging 31/871pcs 37/1027pcs



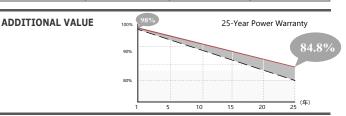
Remark: customized frame color and cable length available upon request

MECHANICAL SPECIF	ICATION	OPERATING PARAMETERS						
Cell Mono		Maximum System Voltage	1500VDC					
No.of cells	120(6x20)	Operating Temperature	-40°C∼+85°C					
Cable Length	300mm(+)/300mm(-)	Maximum Series Fuse	20A					
Cable Cross Section Si	ize 4mm²(IEC)	Maximum StaticLoad, Front	5400Pa(112lb/ft²)					
Junction Box	IP67,3 diodes	Maximum StaticLoad,Back	2400Pa(50lb/ft²)					
Connector	MC4 Compatible	Safety Class	ClassⅡ					

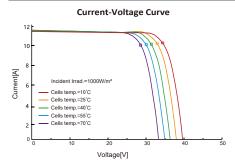
ELECTRICAL CHARACTERISTICS STC:AM1.5 1000W/m² 25 C NOCT:AM1.5 800W/m² 20 C 1m/s Test uncertainty for Pmax ±3%

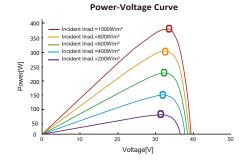
Module Type	KSM-36	5/120-S2	KSM-370	KSM-370/120-S2		KSM-375/120-S2		KSM-380/120-S2		KSM-385/120-S2		0/120-S2	KSM-395/120-S2	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	365	275	370	278.7	375	283.4	380	287.1	385	290.9	390	294.7	395	298.5
Open Circuit Voltage(Voc/V)	41.15	38.85	41.30	38.99	41.45	39.05	41.60	39.19	41.75	39.33	41.90	39.47	42.05	39.62
Short Circuit Current(Isc/A)	11.29	9.12	11.35	9.17	11.41	9.22	11.47	9.26	11.53	9.31	11.59	9.36	11.65	9.41
Voltage at Maximum Power(Vmp/V)	33.96	32.11	34.23	32.38	34.50	32.75	34.77	33.01	35.04	33.27	35.31	33.53	35.58	33.78
Current at Maximum Power(Imp/A)	10.75	8.56	10.81	8.61	10.87	8.65	10.93	8.70	10.99	8.74	11.05	8.79	11.11	8.84
Module Efficiency(%)	20.	.04	20).31	20	.59	2	0.86	2	1.13	21	.41	21	.68

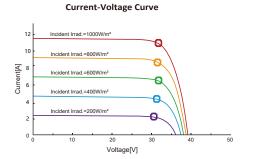
TEMPERATURE RATINGS		
Norminal Operating Cell Temperature(NOCT)	45±2°C	
Temperature Coefficient of Isc	+0.044%/°C	
Temperature Coefficient of Voc	-0.272%/°C	
Temperature Coefficient of Pmax	-0.350%/℃	



I-V CURVE(KSM-365-395/120-S2)









440~475W

KSM-440-475/144-S2

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 21.90%) 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



25-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





















KSM-440-475/144-S2

440-475W

Half-Cell High Efficiency PV Module

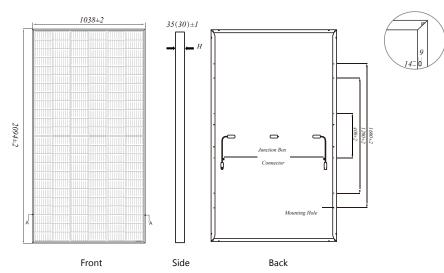
Weight 24.6kg±3% Cells Type

Mono 166-9BB

Dimension(LxWxT) 2094x1038x35(30)mm

Packaging

31/737pcs 37/869pcs



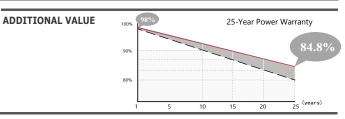
Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICA	MECHANICAL SPECIFICATION		
Cell	Mono	Maximum System Voltage	1500VDC
No.of cells	144(6x24)	Operating Temperature	-40°C∼+85°C
Cable Length	300mm(+)/300mm(-)	Maximum Series Fuse	20A
Cable Cross Section Size	4mm²(IEC)	Maximum StaticLoad,Front	5400Pa(112lb/ft²)
Junction Box	IP67,3 diodes	Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Connector	MC4 Compatible	Safety Class	ClassⅡ

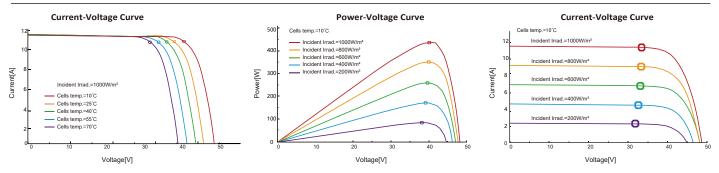
ELECTRICAL CHARACTERISTICS STC:AM1.5 1000W/m² 25 C NOCT:AM1.5 800W/m² 20 C 1m/s Test uncertainty for Pmax ±3%

Module Type	KSM-440	/144-S2	KSM-44	5/144-S2	KSM-450	0/144-S2	KSM-45	55/144-S2	KSM-46	50/144-S2	KSM-46	5/144-S2	KSM-47	0/144-S2	KSM-47	5/144-S2
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	440	327.4	445	331.1	450	334.8	455	338.5	460	342.2	465	346	470	349.7	475	353.4
Open Circuit Voltage(Voc/V)	49.40	46.54	49.56	46.69	49.70	46.82	49.85	46.96	50.01	47.12	50.15	47.25	50.31	47.40	50.46	47.54
Short Circuit Current(Isc/A)	11.28	9.11	11.32	9.14	11.36	9.18	11.41	9.22	11.45	9.25	11.49	9.28	11.53	9.31	11.58	9.35
Voltage at Maximum Power(Vmp/V)	40.92	38.27	41.21	38.57	41.52	38.86	41.82	39.12	42.13	39.41	42.43	39.70	42.74	39.99	43.05	40.24
Current at Maximum Power(Imp/A)	10.76	8.55	10.80	8.58	10.84	8.62	10.92	8.65	10.92	8.68	10.96	8.71	11.00	8.74	11.03	8.78
Module Efficiency(%)	20.	24	20	.47	20).70	20).93	21	.20	21.	40	21	.60	21	.90

TEMPERATURE RATINGS		
Norminal Operating Cell Temperature(NOCT)	45±2°C	
Temperature Coefficient of Isc	+0.044%/℃	
Temperature Coefficient of Voc	-0.272%/°C	
Temperature Coefficient of Pmax	-0.350%/°C	



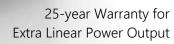
I-V CURVE (KSM-440-475/144-S2)



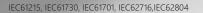


12-year Warranty for Materials and Processing































KSM-365-385/120-S2B

365-385W

Half-Cell High Efficiency PV Module

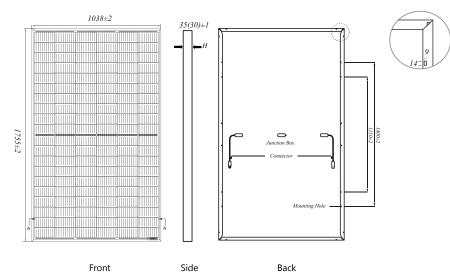
Weight 20.5kgs±3%

Cells Type
Mono 166-9BB

Dimension(LxWxT) 1755x1038x35(30)mm

Packaging

31/871pcs 37/1027pcs



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION OPERATING PARAMETERS Cell Mono Maximum System Voltage No.of cells 120(6x20) Operating Temperature

Cable Length 300mm(+)/300mm(-) Maximum Series Fuse 20A

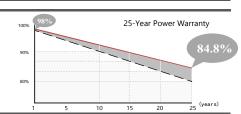
Cable Cross Section Size4mm²(IEC)Maximum StaticLoad,Front5400Pa(112lb/ft²)Junction BoxIP67,3 diodesMaximum StaticLoad,Back2400Pa(50lb/ft²)ConnectorMC4 CompatibleSafety ClassClass II

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

Module Type	KSM-365/120-S2B		KSM-370/120-S2B		KSM-375/120-S2B		KSM380/120-S2B		KSM-385/120-S2B	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	365	275	370	278.7	375	283.4	380	287.1	385	290.9
Open Circuit Voltage(Voc/V)	41.15	38.85	41.30	38.99	41.45	39.05	41.60	39.19	41.75	39.33
Short Circuit Current(Isc/A)	11.29	9.12	11.35	9.17	11.41	9.22	11.47	9.26	11.53	9.31
Voltage at Maximum Power(Vmp/V)	33.96	32.11	34.23	32.38	34.50	32.75	34.77	33.01	35.04	33.27
Current at Maximum Power(Imp/A)	10.75	8.56	10.81	8.61	10.87	8.65	10.93	8.70	10.99	8.74
Module Efficiency(%)	20.04		20.31		20.59		20.86		21.13	

ADDITIONAL VALUE

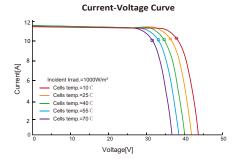
TEMPERATURE RATINGS Norminal Operating Cell Temperature(NOCT) 45 ± 2 C Temperature Coefficient of Isc +0.044%/C Temperature Coefficient of Voc -0.272%/C Temperature Coefficient of Pmax -0.350%/C

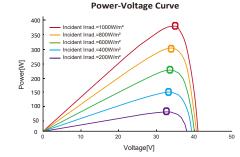


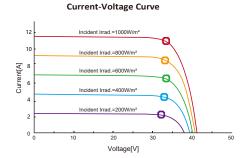
1500VDC

-40°C~+85°C

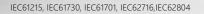
I-V CURVE(KSM-365-390/120-S2B)

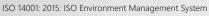
































KSM-425-450/120-S2

425-450W

Half-Cell High Efficiency PV Module

Weight

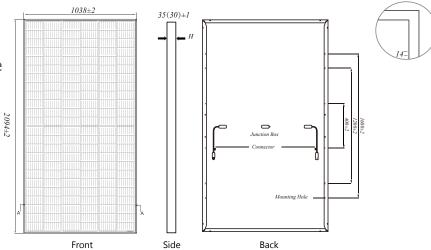
24.6kgs±3%

Cells Type Mono 166-9BB

Dimension(LxWxT) 2094×1038×35(30)mm

Packaging

31/737pcs 37/869pcs



Remark: customized frame color and cable length available upon request

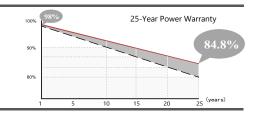
MECHANICAL SPECIFICA	TION	OPERATING PARAMETERS	OPERATING PARAMETERS					
Cell	Mono	Maximum System Voltage	1500VDC					
No.of cells	144(6x24)	Operating Temperature	-40°C∼+85°C					
Cable Length	300mm(+)/300mm(-)	Maximum Series Fuse	20A					
Cable Cross Section Size	4mm²(IEC)	Maximum StaticLoad,Front	5400Pa(112lb/ft²)					
Junction Box	IP67,3 diodes	Maximum StaticLoad,Back	2400Pa(50lb/ft²)					
Connector	MC4 Compatible	Safety Class	ClassⅡ					

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

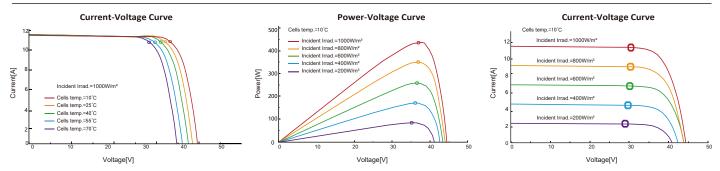
Module Type	KSM-42	5/144-S2	KSM-430	KSM-430/144-S2		KSM-435/144-S2		KSM-440/144-S2		45/144-S2	KSM-450/144-S2	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	425	316.2	430	319.9	435	323.6	440	327.4	445	331.1	450	334.8
Open Circuit Voltage(Voc/V)	48.64	45.82	48.80	45.98	48.96	46.13	49.40	46.54	49.56	46.69	49.70	46.82
Short Circuit Current(Isc/A)	11.27	9.10	11.31	9.13	11.35	9.17	11.28	9.11	11.32	9.14	11.36	9.18
Voltage at Maximum Power(Vmp/V)	40.23	37.00	40.52	37.30	40.81	37.60	40.92	38.27	41.21	38.57	41.52	38.86
Current at Maximum Power(Imp/A)	10.58	8.55	10.62	8.58	10.66	8.61	10.76	8.55	10.80	8.58	10.84	8.62
Module Efficiency(%)	19.	55		19.78		20.01	20	.24	20	.47	20.7	70

ADDITIONAL VALUE

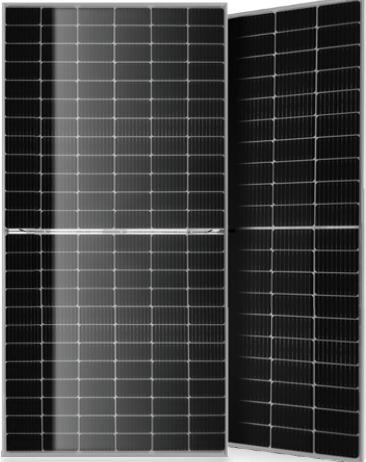
TEMPERATURE RATINGS	
Norminal Operating Cell Temperature(NOCT)	45±2℃
Temperature Coefficient of Isc	+0.044%/°C
Temperature Coefficient of Voc	-0.272%/°C
Temperature Coefficient of Pmax	-0.350%/°C



I-V CURVE(KSM-425-450/144-S2B)







435~455W

KSM-435-455/144-S2S

BIFACIAL MONO PERC

High Efficiency

Higher module conversion efficiency(up to 20.93%) benefit from half cell structure(low resistance characteristic).



Multi busbar technology

Better light utilization and current collection capabilities, effectively improving product power output and reliability.



Longer service life

Excellent double-sided warranty promises a 30-year power warranty of 0.45% linear power attenuation.



Severe Weather Resilience

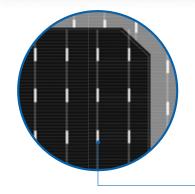
Certified to withstand:Wind load(2400 pascal) and snow load(5400 pascal).



Double-sided power generation

The double-sided power generation gain increases with the light received on the back side, up to 25%, which significantly reduces the LCOE.





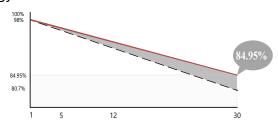
12-year Warranty for Materials and Processing



30-year Warranty for Extra Linear Power Output



Double-sided cell technology



IEC61215, IEC61730, IEC61701, IEC62716, IEC62804





















KSM-435-455/144-S2S

435-455W

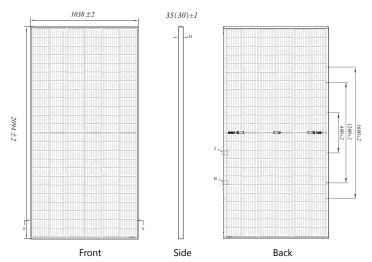
Half-Cell High Efficiency PV Module

Weight 28.1kg±3%

Cells Type Mono 166-9BB

Dimension(LxWxT) 2094×1038×35(30)mm

Packaging 31/737pcs 37/869pcs



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICA	ATION	OPERATING PARAMETERS	OPERATING PARAMETERS					
Cell	Mono	Maximum System Voltage	1500VDC					
No.of cells	144(6x24)	Operating Temperature	-40°C∼+85°C					
Cable Length	300mm(+)/300mm(-)	Maximum Series Fuse	25A					
Cable Cross Section Size	4mm²(IEC)	Maximum StaticLoad,Front	5400Pa(112lb/ft²)					
Junction Box	IP68,3 diodes	Maximum StaticLoad,Back	2400Pa(50lb/ft²)					
Connector	MC4 Compatible	Safety Class	ClassⅡ					

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

Module Type	KSM43 5/1 44 -S2 S		KSM-440/144- S2 S		KSM-445/144-S2S		KSM-450/144-S2S		KSM-455/144-S2S	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	435	323.6	440	327.4	445	331.1	450	334.8	455	338.5
Open Circuit Voltage(Voc/V)	48.96	46.13	49.40	46.54	49.56	46.69	49.70	46.82	49.85	46.96
Short Circuit Current(Isc/A)	11.35	9.17	11.28	9.11	11.32	9.14	11.36	9.18	11.41	9.22
Voltage at Maximum Power(Vmp/V)	40.81	37.60	40.92	38.27	41.21	38.57	41.52	38.86	41.82	39.12
Current at Maximum Power(Imp/A)	10.66	8.61	10.76	8.55	10.80	8.58	10.84	8.62	10.92	8.65
Module Efficiency(%)	20.01%		20.24%		20.47%		20.70%		20.93%	

ELECTRICAL CHARACTERISTICS WITHDIFFERENT REAR SIDE POWER GAINS (REFERENCEDSPECIFICALLY TO 450WP FRONT) Maximum Power(Pmax/W) 15% 20% 25% 10% Maximum Power(Pmax/W) 473 495 518 540 563 22.07% 23.16% 24.20% 25.24% 25.28% Pmax Gain(%)

TEMPERATURE RATINGS Norminal Operating Cell Temperature(NOCT) Temperature Coefficiency of Isc Temperature Coefficiency of Voc Temperature Coefficiency of Pmax -0.350%/ *C

I-V CURVE (KSM-435-455/144-S2S)

