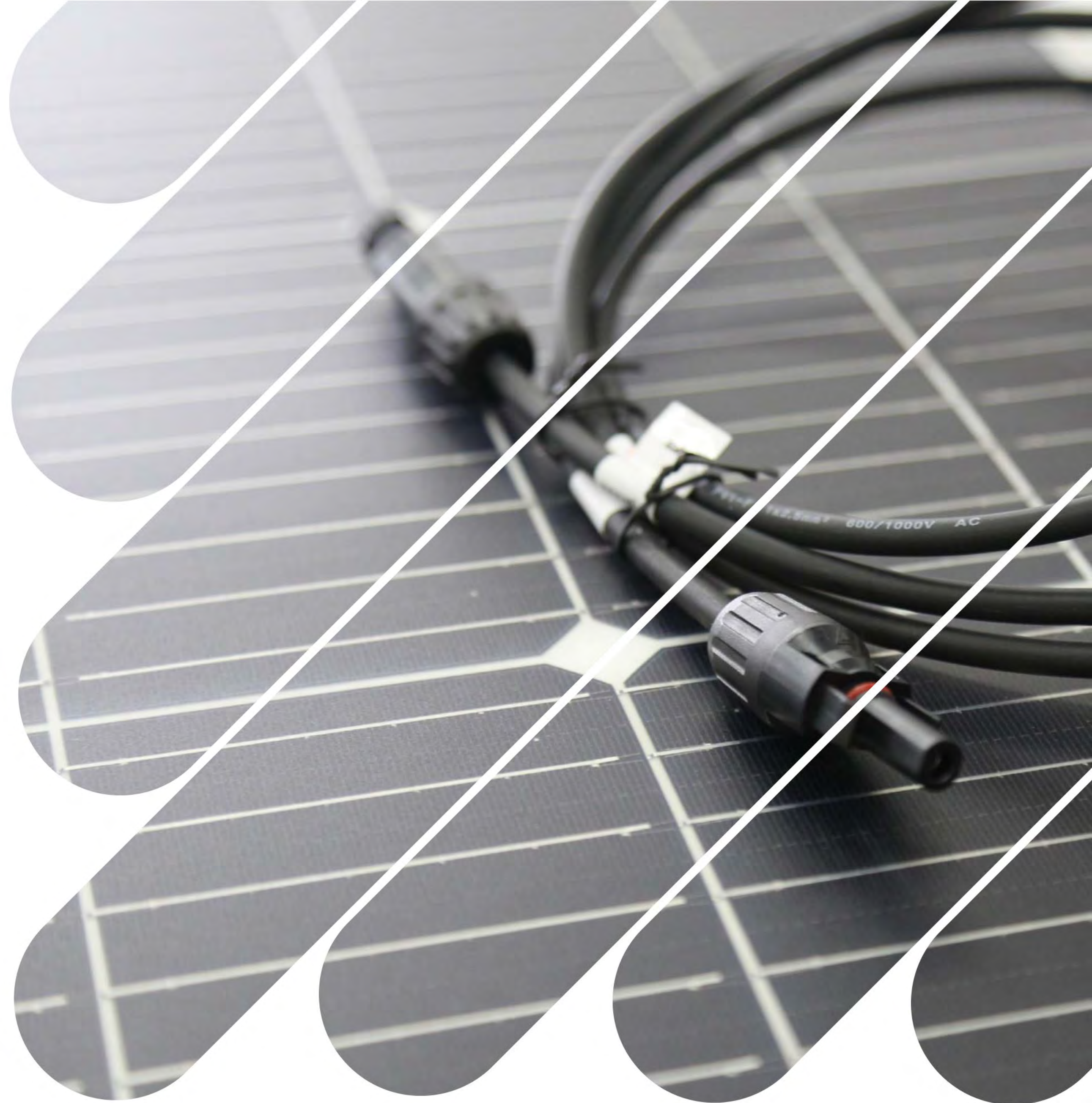




Please
rotate
your screen

BBCSolar 2025 Fall Collection





2025



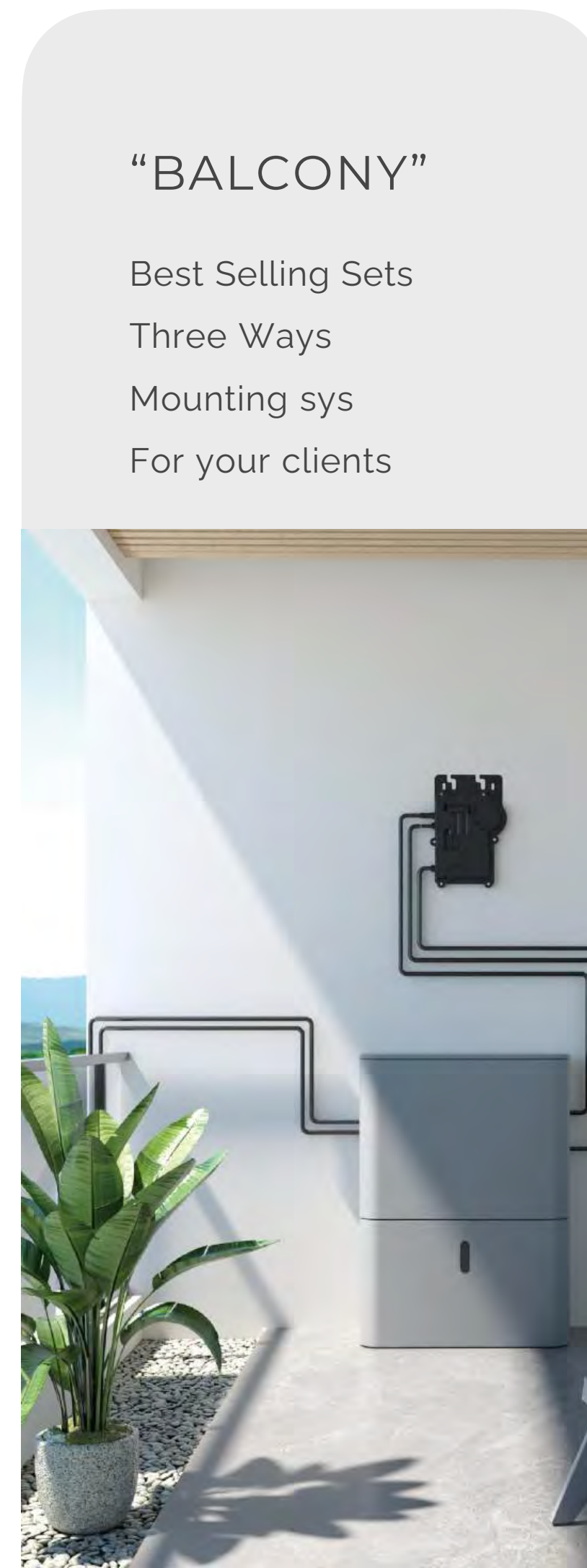
2025

Fall Collection

Solar Panels / Balcony System / EV Charger

CONTENTS

- Professional Panels
- The Balcony Sys
- and for your EV



Professional Panels



600W - 440W or small sized





KSM410-P-54

Monocrystalline PV Modules
Full Black

Efficiency: 21.0%

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).

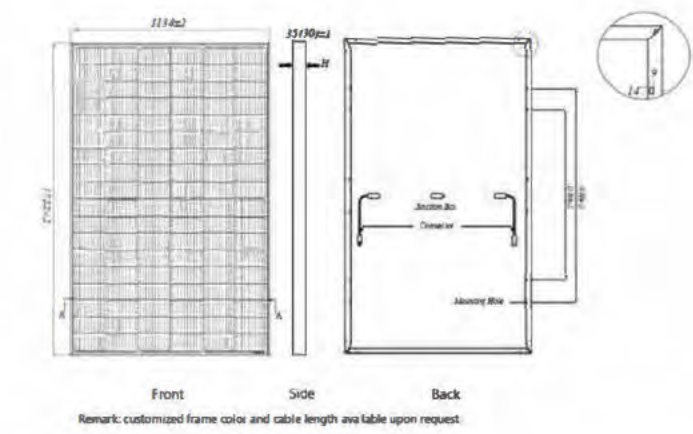


Weight
21.0kgs±3%

Cells Type
Mono 182

Dimension(LxWxT)
1722x1134x35(30)mm

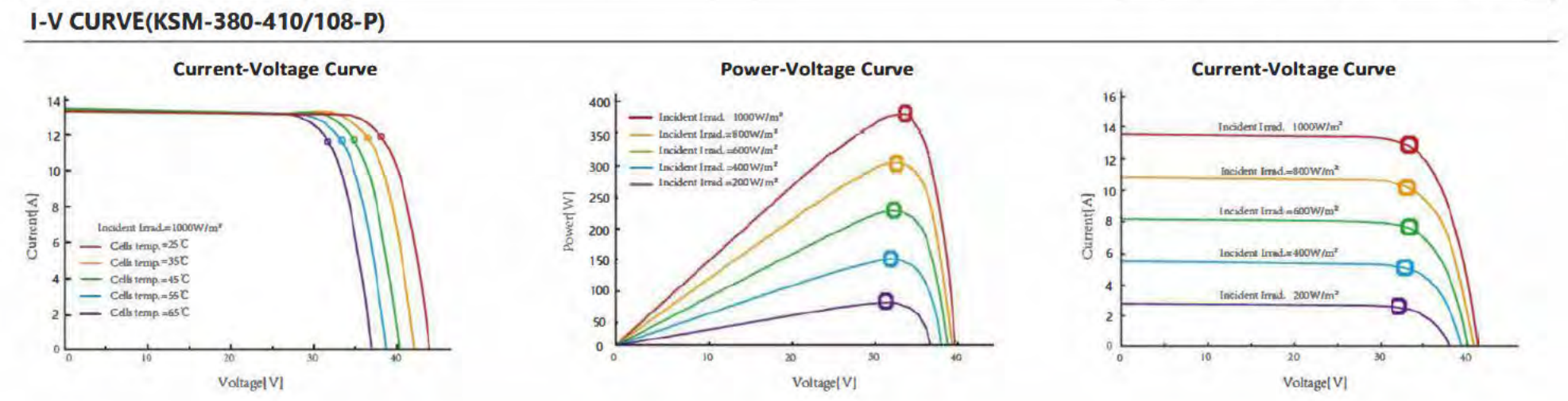
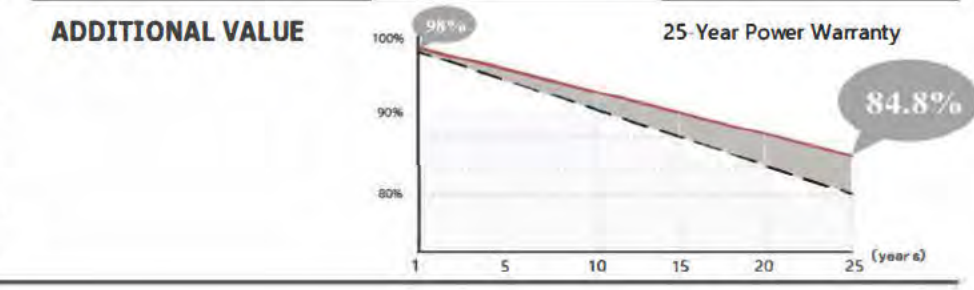
Packaging (40'HQ Container)
36pcs/pallet, 936pcs/40HQ container
31pcs/pallet, 806pcs/40HQ container



MECHANICAL SPECIFICATION				OPERATING PARAMETERS			
Cell	Mono			Maximum System Voltage	1500VDC		
No.of cells	108(6x18)			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	Class 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-380-P-54		KSM-385-P-54		KSM-390-P-54		KSM-395-P-54		KSM-400-P-54		KSM-405-P-54		KSM-410-P-54		
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
Maximum Power(Pmax/W)	380	286.3	385	290.0	390	293.8	395	297.6	400	301.3	405	305.1	410	308.9	
Open Circuit Voltage(Voc/V)	36.31	33.97	36.46	34.11	36.61	34.25	36.76	34.39	36.91	34.53	37.06	34.67	37.21	34.81	
Short Circuit Current(Isc/A)	13.40	10.82	13.47	10.87	13.54	10.93	13.61	10.99	13.68	11.04	13.75	11.10	13.82	11.16	
Voltage at Maximum Power(Vmp/V)	30.56	27.92	30.72	28.14	30.88	28.36	31.04	28.57	31.20	28.79	31.36	29.00	31.52	29.21	
Current at Maximum Power(Imp/A)	12.43	10.25	12.53	10.31	12.63	10.36	12.73	10.41	12.82	10.47	12.91	10.52	13.01	10.57	
Module Efficiency(%)	19.46%		19.72%		19.97%		20.23%		20.48%		20.74%		21.00%		

TEMPERATURE RATINGS	
Normal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Pmax	-0.350%/°C



12-years Warranty for
Materials and Processing



25-years Warranty for
Extra Linear Power Output



MBB and half-cell technology applied
functions to improve energy density
and bring higher output power.

KSM550-P-72

Monicrystalline PV Modules

Efficiency: 21.3%

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).

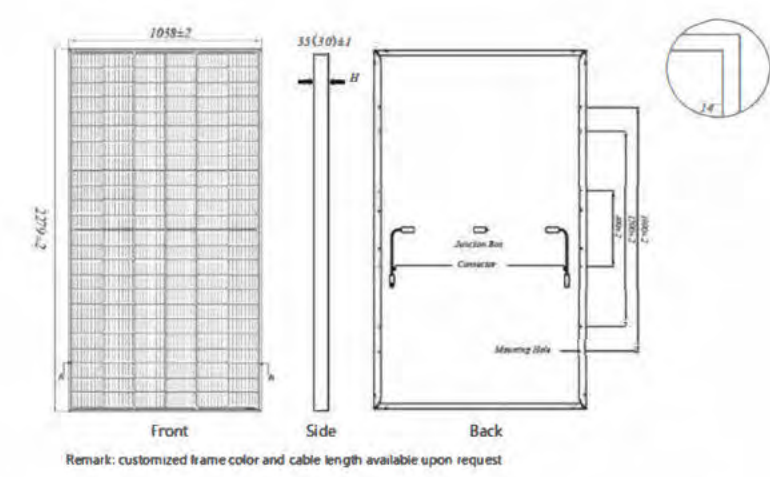


Weight
22.5kgs±3%

Cells Type
Mono 182

Dimension(LxWxT)
2279x1134x35 (30) mm

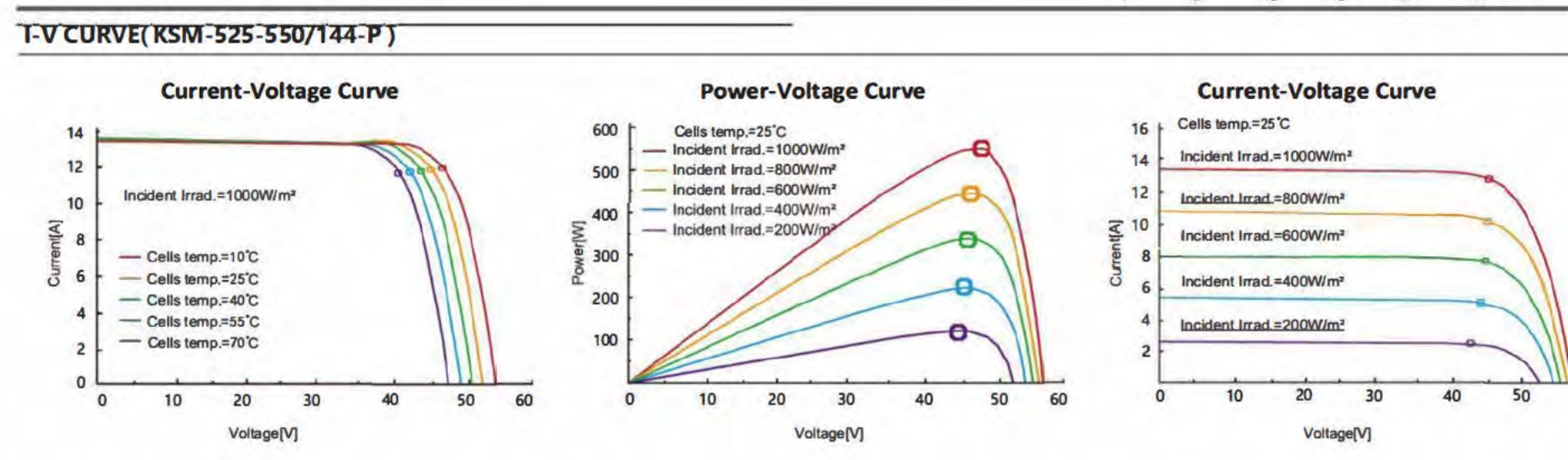
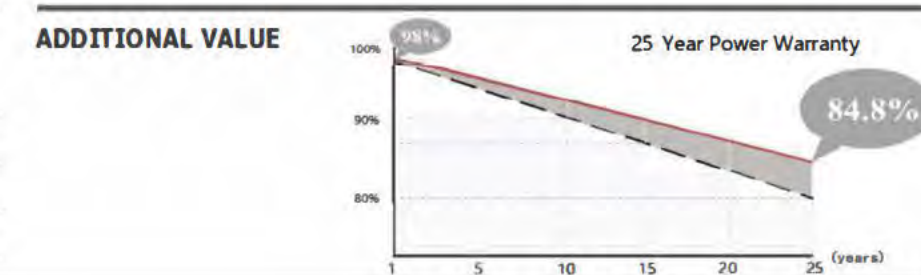
Packaging
31pcs/pallet, 620pcs/40HQ container
36pcs/pallet, 720pcs/40HQ container



MECHANICAL SPECIFICATION				OPERATING PARAMETERS			
Cell	Mono			Maximum System Voltage	1500VDC		
No.of cells	144(6x24)			Operating Temperature	-40℃~+85℃		
Cable Length	300mm(+)/300mm(-)			Maximum Series Fuse	25A		
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	Class II		

ELECTRICAL CHARACTERISTICS STC:AM1.5 1000W/m² 25℃ NOCT:AM1.5 800W/m² 20℃ 1m/s Test uncertainty for Pmax ±3%													
Module Type	KSM-525-P-72		KSM-530-P-72		KSM-535-P-72		KSM-540-P-72		KSM-545-P-72		KSM-550-P-72		
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	NOCT
Maximum Power(Pmax/W)	525	396.5	530	399.2	535	404.9	540	408.8	545	412.6	550	416.4	416.4
Open Circuit Voltage(Voc/V)	49.15	45.98	49.3	46.12	49.4	46.63	49.5	46.73	49.6	46.82	49.7	46.92	46.92
Short Circuit Current(Isc/A)	13.65	11.02	13.72	11.07	13.79	10.97	13.85	11.03	13.94	11.08	14.03	11.15	11.15
Voltage at Maximum Power(Vmp/V)	41.15	37.68	41.31	37.7	40.7	37.73	40.8	37.82	40.9	37.91	41	38	38
Current at Maximum Power(Imp/A)	12.76	10.44	12.83	10.5	13.17	10.74	13.27	10.81	13.36	10.89	13.45	10.96	10.96
Module Efficiency(%)	20.3		20.5		20.7		20.9		21.1		21.3		21.3

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



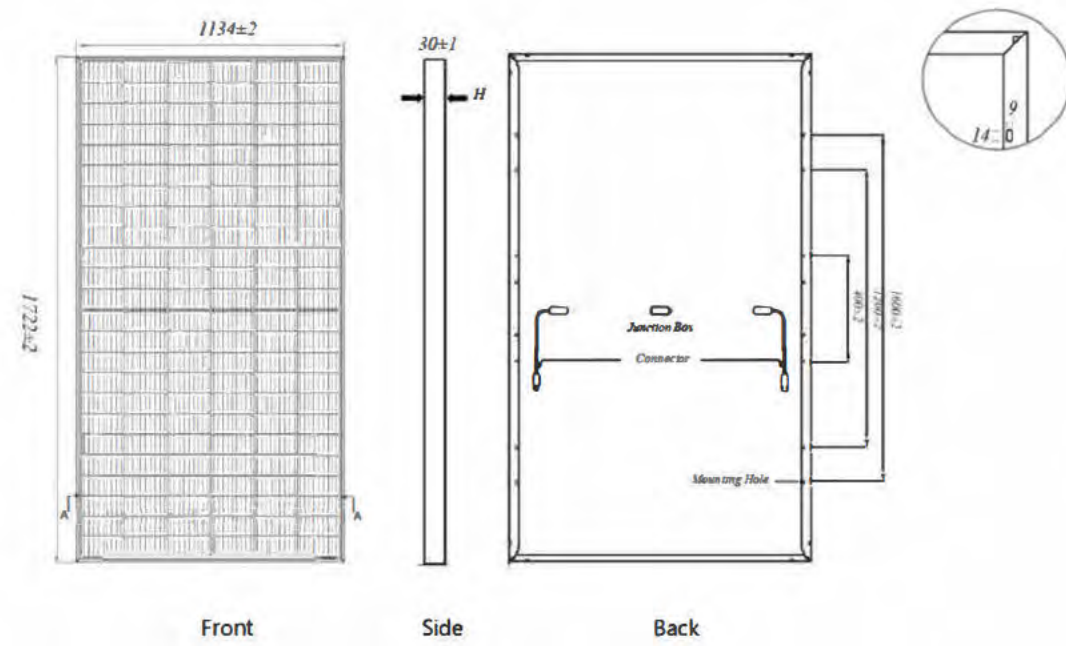
12 years Warranty for Materials and Processing



25 years Warranty for Extra Linear Power Output



MBB and half-cell technology applied functions to improve energy density and bring higher output power.



Weight
22kgs±3%

Cells Type
Mono 182

Dimension(LxWxT)
1722x1134x30mm

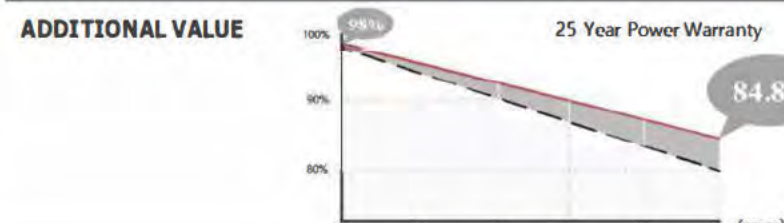
Packaging
36pcs/pallet, 936pcs/40HQ container
31pcs/pallet, 806pcs/40HQ container

Remark: customized frame color and cable length available upon request

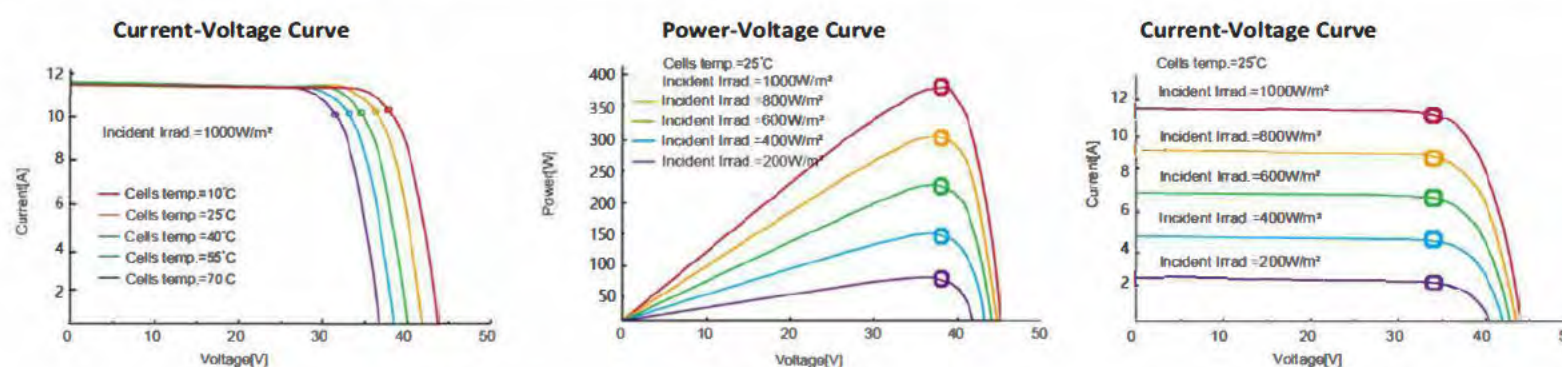
MECHANICAL SPECIFICATION		OPERATING PARAMETERS	
Cell	Mono	Maximum System Voltage	1500VDC
No.of cells	108(6X18) N-10Pcon	Operating Temperature	40°C ~ +85°C
Cable Length	300mm(+/-)300mm()	Maximum Series Fuse	25A
Cable Cross Section Size	4mm²(IEC)	Maximum StaticLoad,Front	5400Pa(112lb/ft²)
Junction Box	IP68, 3 diodes	Maximum StaticLoad,Back	2400Pa(50lb/ft²)
Connector	MC4 Compatible	Safety Class	Class II

ELECTRICAL CHARACTERISTICS		STC:AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax ±5%											
Module Type	KSM-410-N-54		KSM-415-N-54		KSM-420-N-54		KSM-425-N-54		KSM-430-N-54		KSM-435-N-54		
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
Maximum Power(Pmax/W)	410	308	415	312	420	316	425	320	430	323	435	327	
Open Circuit Voltage(Voc/V)	37.60	35.81	37.80	36.00	38.00	36.19	38.20	36.38	38.40	36.57	38.60	36.76	
Short Circuit Current(Isc/A)	13.93	11.23	14.01	11.3	14.09	11.36	14.17	11.43	14.25	11.49	14.32	11.55	
Voltage at Maximum Power(Vmp/V)	31.23	29.19	31.42	29.36	31.61	29.54	31.80	29.72	31.99	29.90	32.18	30.07	
Current at Maximum Power(Imp/A)	13.13	10.59	13.21	10.65	13.29	10.72	13.37	10.78	13.45	10.85	13.52	10.90	
Module Efficiency(%)	21.00		21.25		21.51		21.76		22.02		22.28		

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



I-V CURVE(KSM-410-435/108-N)



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 22.80%) 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-years Warranty for Materials and Processing



25-years Warranty for Extra Linear Power Output



KSM435-N-54

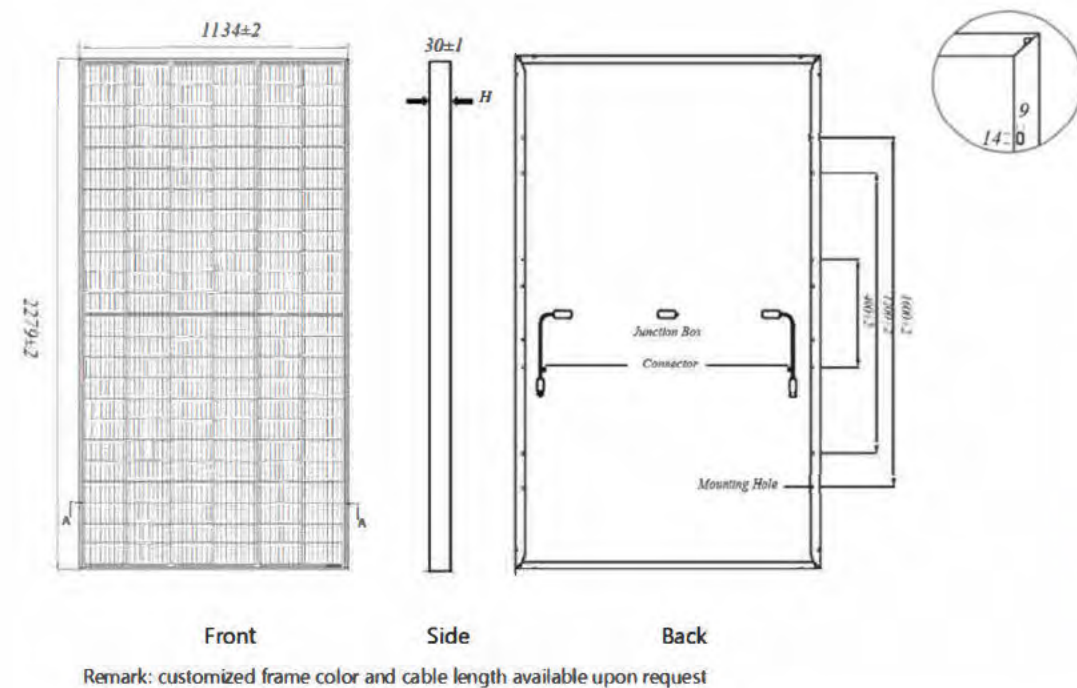
N-type mono PV Modules
BIFACIAL
FULL BLACK DUAL GLAS

Efficiency: 22.28%

Bifacial Output-rearside Power Gain (430W)

Rearside power gain	10%	15%	20%	25%	30%
Maximum Power (Pmax/W)	473	494.5	516	537.5	559
Open Circuit Voltage (Voc/V)	38.6	38.6	38.7	38.7	38.7
Short Circuit Current (Isc/A)	15.18	15.87	16.56	17.25	17.94
Voltage at Max. Power (Pmp/V)	32.68	32.68	32.78	32.78	32.78
Current at Max. Power (Imp/A)	14.47	15.13	15.74	16.4	17.05

MBB and half-cell technology applied functions to improve energy density and bring higher output power.

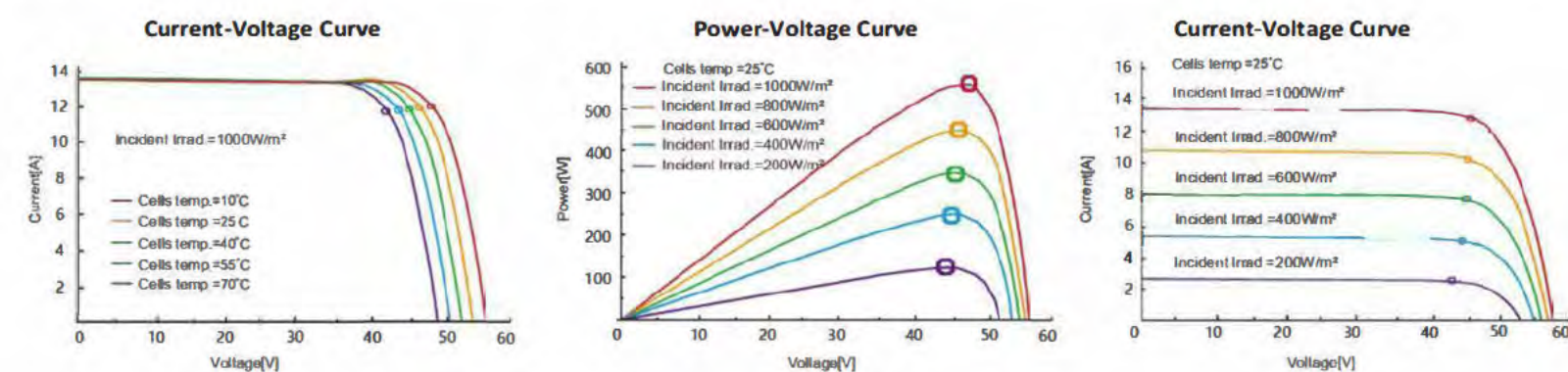


Weight
31.5kgs±3%

Cells Type
Mono 182

Dimension(LxWxT)
2279x1134x30mm

Packaging
31pcs/pallet, 720pcs/40HQ container



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 22.80%) 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 years Warranty for Materials and Processing



25 years Warranty for Extra Linear Power Output

KSM580-N-72

N-type mono PV Modules
BIFACIAL
DUAL GLAS

Efficiency: 22.45%

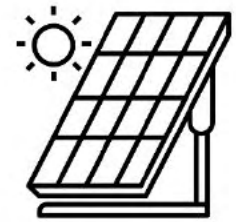
Bifacial Output-rearside Power Gain (570W)

Rearside power gain	10%	15%	20%	25%	30%
Maximum Power (Pmax/W)	627	655.5	684	712.5	741
Open Circuit Voltage (Voc/V)	51.6	51.6	51.7	51.7	51.7
Short Circuit Current (Isc/A)	15.68	16.39	17.1	17.81	18.53
Voltage at Max. Power (Pmp/V)	42.32	42.32	42.42	42.42	42.42
Current at Max. Power (Imp/A)	14.82	15.49	16.12	16.8	17.47

MBB and half-cell technology applied functions to improve energy density and bring higher output power.

THREE-WAY INSTALL

The Balcony System



BEST SELLING MODEL

400W Panels

Microinverter

Three Ways Mounting System





INTRODUCING

KSMI-400/500 Microinverter

TÜVNORD

EN 62109-1:2010 EN 62109-2:2011 CE-LVD

EN IEC 61000-6-1:2019 EN IEC 61000-6-3:2021 CE-EMC

CE-RED

EN 50549-10:2022 TUV COC

EN 50549-10:2022 TUV COC

VDE 4105:2018 VDE 0124-100:2020-06 TUV COC



HIGH
EFFICIENCY

CEC Weighted Efficiency

96%+ tested

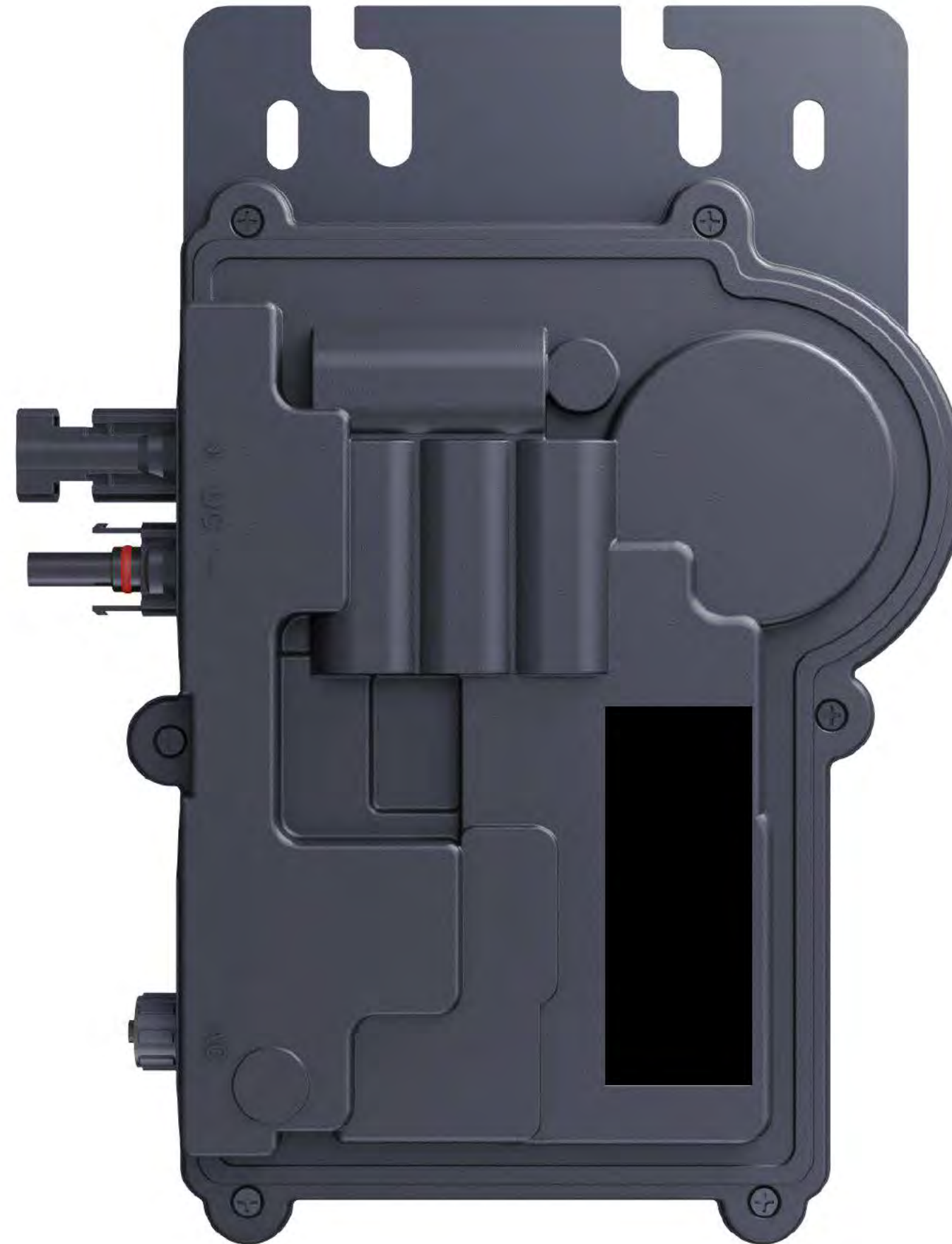


TUYA APP
REMOTE

KMSI-400/500/600

High Efficiency Microinverter

Max.
60V
15A/18A/12A*2



Applicable Module Power (W)

355Wp-
670Wp+

Dimensions (W*H*D) [mm]

212-165-32

Monitoring



Standard

IEC62109-1/2

IEC61000-6-1/IEC61000-6-
2/IEC61000-6-3/IEC61000-6-
4/IEC61000-3-2/IEC61000-3-3

KSB-AP-02E



All-in-one Solar Energy System

Solar + Microinverter +
Energy Storage + Smart Control



800W*2 Input 6kWh Battery max



1

Battery up to 6 kWh extended design (3 packs stack)

2

Inbuilt Microinverter
Quick snap install

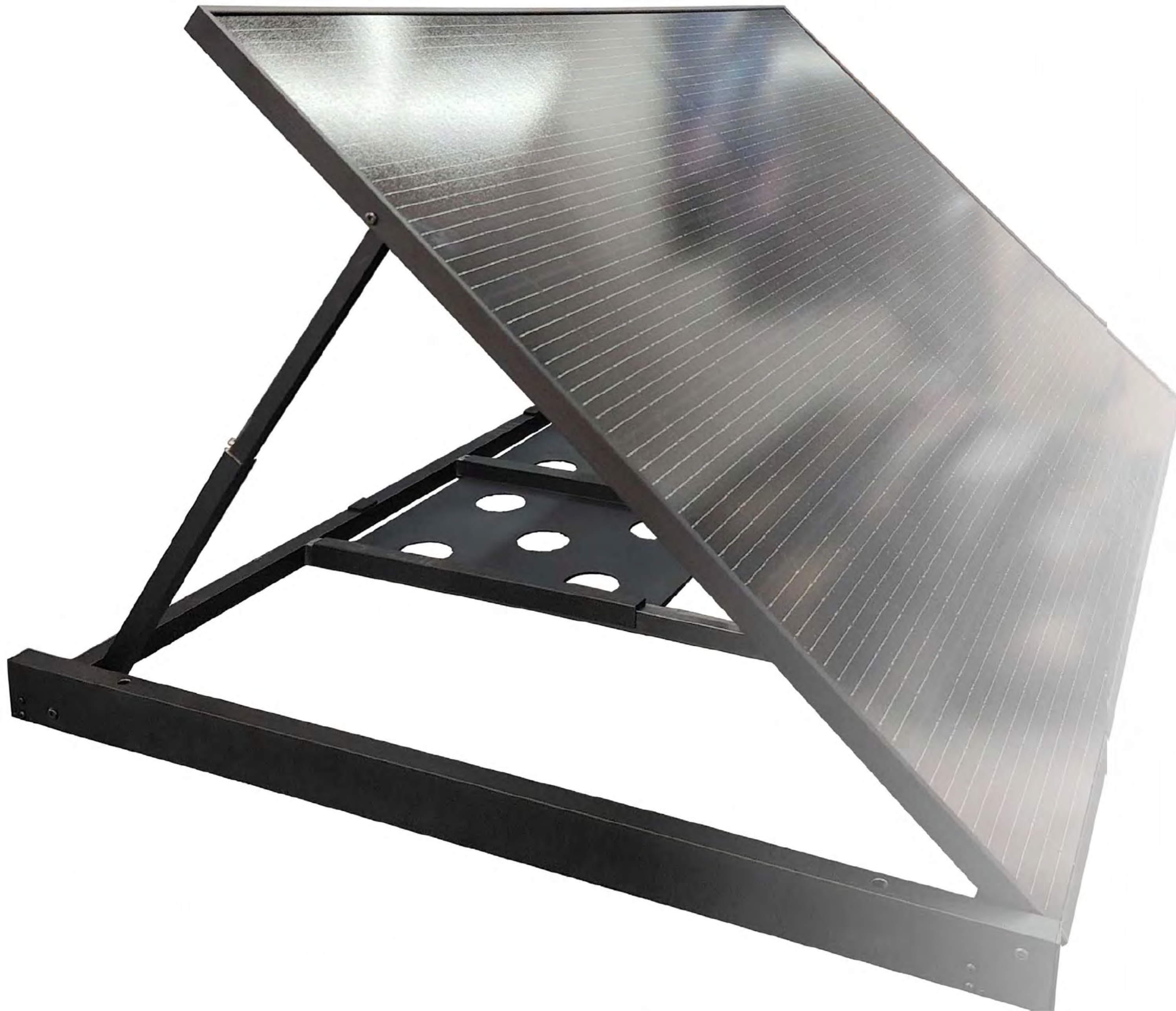
3

Auto control. LFP(LiFePO₄) 6000 times lifecycle

4

Mainframe: 480mm×230mm×275mm
Pack: 480mm×230mm×230mm





MOUNTING

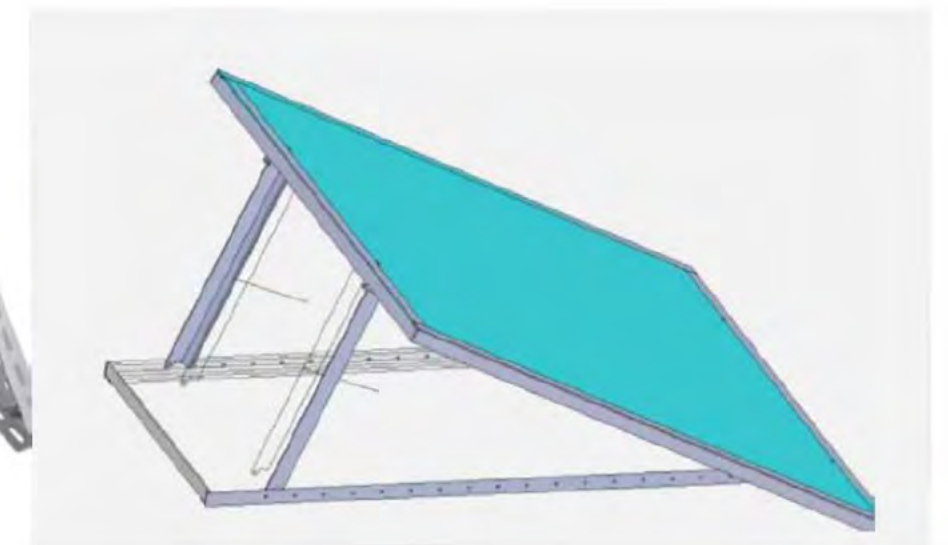
Three Ways:

- Balcony
- Ground
- Wall

What we also offer: mounting system design

Experienced solutions based on your idea.*

Contact our experts for more details.



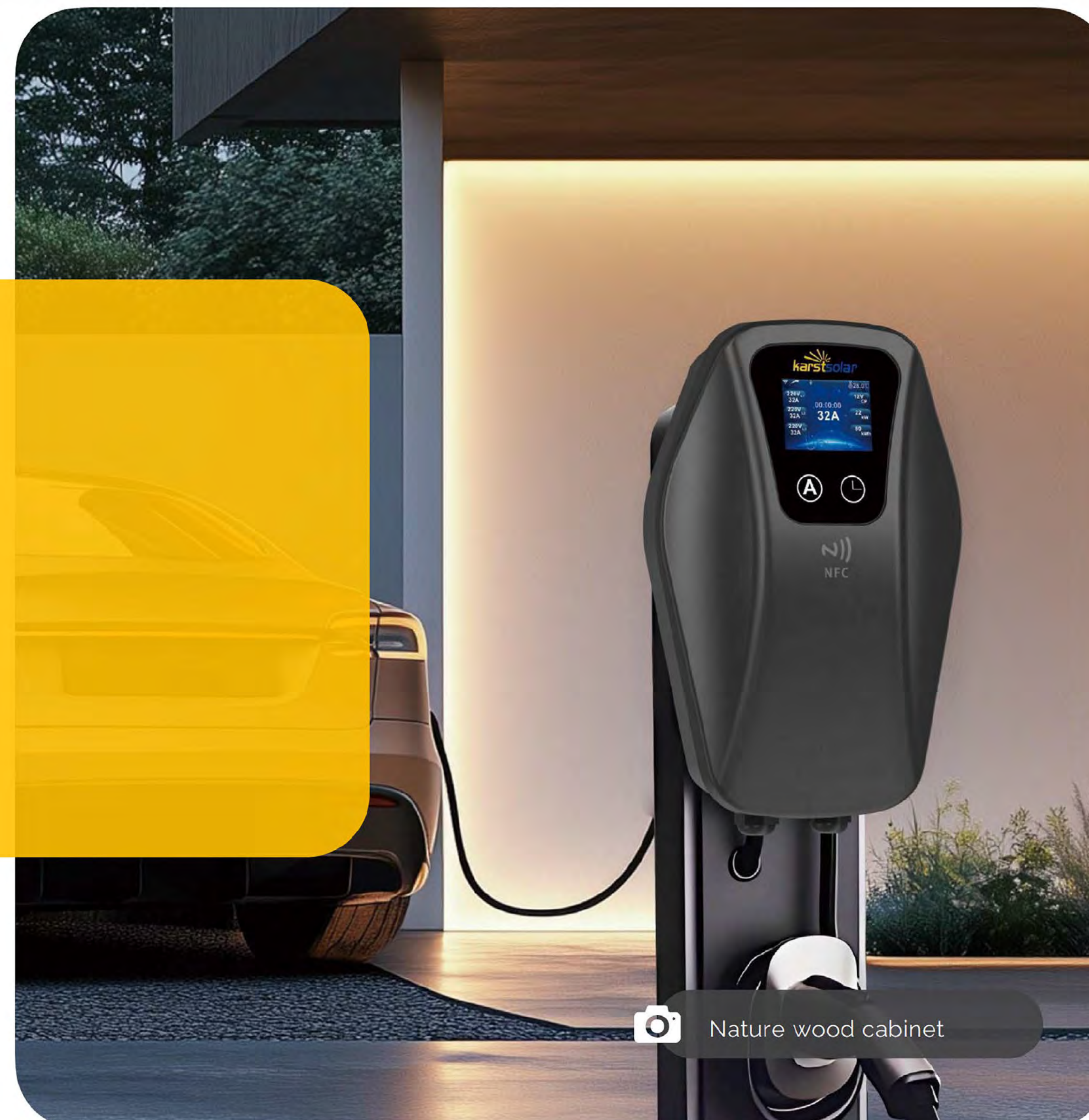


EV charger

7kW-11kW-22kW

NFC - 1P / 3P

Home & Portable



Nature wood cabinet



KSEVC series

SAE J1772/Type1:

Support

Level 1 (120 V AC)

Level 2 (208 or 240 V AC)

North America & Japan

IEC 62196/Type2:

Support 220V AC & 400V AC

Europe



Type 2

Type 1



Home Charger Datasheet



Datasheet		EU Standard			US Standard		
Model		KSEVC-WE-7KW	KSEVC-WE-11KW	KSEVC-WE-22KW	KSEVC-WU-7.68KW	KSEVC-WU-9.6KW	KSEVC-WU-19.2KW
Rated Power	Rated Power	7KW	11KW	22KW	7.68KW	9.6KW	19.2KW
Input	Power Supply	L+N+PE	L1+L2+L3+N+PE	L1+L2+L3+N+PE	L+N+PE(L1+L2+PE)	L+N+PE(L1+L2+PE)	L+N+PE(L1+L2+PE)
	Rated Voltage	230V AC	400V AC	400V AC	110V/240V AC	110V/240V AC	110V/240V AC
	Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Output	Output Voltage	230V AC	400V AC	400V AC	240V AC	240V AC	240V AC
	Maximum Current	32A	16A	32A	32A	40A	80A
	Maximum Power	7KW	11KW	22KW	7.68KW	9.6KW	19.2KW
	Charge Connector	Type 2 socket	Type 2 socket	Type 2 socket	Type 1	Type 1	Type 1
User Interface	Enclosure	plastic	Galvanized steel	Galvanized steel	plastic	plastic	plastic
	Front Panel	plastic	Temper glass	Temper glass	plastic	plastic	plastic
	LCD Display	4.3inch	4.3inch	4.3inch	4.3inch	4.3inch	4.3inch
	RFID Reader	NFC	NFC	NFC	NFC	NFC	NFC
Communication	Start Mode	Plug/RFID card	Plug/RFID card	Plug/RFID card	Plug/RFID card	Plug/RFID card	Plug/RFID card
	Emergency Stop	√	√	√	√	√	√
	Energy Meter	√	√	√	√	√	√
Communication (optional)	Wifi	√	√	√	√	√	√
	TUYA	√	√	√	√	√	√
	Ethernet	√	√	√	√	√	√
	3G/4G	√	√	√	√	√	√
Safety	OCPP 1.6 Json	√	√	√	√	√	√
	RCD	30mA Type A + 6mA DC	30mA Type A + 6mA DC	30mA Type A + 6mA DC	AC20mA	AC20mA	AC20mA
	Ingress Protection	IP55	IP55	IP55	IP55	IP55	IP55
	Impact Protection	IK08	IK08	IK08	IK08	IK08	IK08
	Electrical Protection	Over current protection, Residual current protection, Short circuit protection, Ground protection, Surge protection, Over/Under voltage protection, Over temperature protection,Cp protection	Over current protection, Residual current protection, Short circuit protection, Ground protection, Surge protection, Over/Under voltage protection, Over temperature protection	Over current protection, Residual current protection, Short circuit protection, Ground protection, Surge protection, Over/Under voltage protection, Over temperature protection	Over current/Residual current/ Short circuit/Ground /Surge/Over/Under voltage/Over temperature /Cp .protection	Over current/Residual current/ Short circuit/Ground /Surge/Over/Under voltage/Over temperature /Cp .protection	Over current/Residual current/ Short circuit/Ground /Surge/Over/Under voltage/Over temperature /Cp .protection
	Certification	CE	CE	CE	UL	UL	UL
	Certification Standard	IEC 62196 Type2	EN/IEC 61851-1: 2017 EN/IEC 61851-21-2: 2018	EN/IEC 61851-1: 2017 EN/IEC 61851-21-2: 2018	SAE J1772	SAE J1772	SAE J1772
	Warranty	2 years	2 years	2 years	2 years	2 years	2 years
Environment	Installation	Wall-mount/Pole-mount	Wall-mount/Pole-mount	Wall-mount/Pole-mount	Wall-mount/Pole-mount	Wall-mount/Pole-mount	Wall-mount/Pole-mount
	Work Temperature	-30℃~+50℃	-30℃~+50℃	-30℃~+50℃	- 30℃~ + 55℃	- 30℃~ + 55℃	- 30℃~ + 55℃
	Work Humidity	5%~95%	5%~95%	5%~95%	5%~95%	5%~95%	5%~95%
	Work Altitude	<2000m	<2000m	<2000m	<2000m	<2000m	<2000m
	Product Dimension	400*210*100mm (H*W*D)	313*246*100mm (H*W*D)	313*246*100mm (H*W*D)	400*210*100mm (H*W*D)	400*210*100mm (H*W*D)	400*210*100mm (H*W*D)
Package	Package Dimension	500*300*160mm (H*W*D)	460*400*170mm (H*W*D)	460*400*170mm (H*W*D)	500*300*160mm (H*W*D)	500*300*160mm (H*W*D)	500*300*160mm (H*W*D)
	Net Weight	3.5kg	3.5kg	3.5kg	4.3kg	4.3kg	4.3kg
	Gross Weight	4kg	4kg	4kg	5.3kg	5.3kg	5.3kg
	External Package	Carton	Carton	Carton	Carton	Carton	Carton



FULL VIEW

Available in 5M cable or socket varieties (Type 1/ Type 2)

Portable EV Charger

EU: Monophase (up to 7KW)

US: Monophase(up to 4.8KW) & Biphase (up to 9.6KW)

Adjustable Current

EU:32A,
US:32A/40A



PACKED

Chief Executive Officer

Datasheet		EU Standard	US Standard	
Model		KSEVC-PE-7KW	KSEVC-PU-7.6KW	KSEVC-PU-9.6KW
Rated Power	Rated Power	7KW	7.68KW	9.6KW
Input	Power Supply	L+N+PE	L+N+PE(L1+L2+PE)	L+N+PE(L1+L2+PE)
	Rated Voltage	230V AC	110V/240V AC	110V/240V AC
	Frequency	50/60Hz	50/60Hz	50/60Hz
Output	Output Voltage	230V AC	240V AC	240V AC
	Maximum Current	32A	32A	40A
	Maximum Power	7KW	7.68KW	9.6KW
	Charge Connector	Type 2 socket	Type 1	Type 1
User Interface	Enclosure	plastic	plastic	plastic
	Front Panel	plastic	plastic	plastic
	LCD Display	2.4inch	2.4inch	2.4inch
	RFID Reader	NFC	NFC	NFC
Communication	Start Mode	Plug	Plug	Plug
	Emergency Stop	×	×	×
	Energy Meter	√	√	√
Communication (optional)	Wifi	√	√	√
	TUYA	√	√	√
	Ethernet	×	×	×
	3G/4G	×	×	×
	OCPP 1.6 json	×	×	×
Safety	RCD	30mA Type A + 6mA DC	AC20mA	AC20mA
	Ingress Protection	IP55	IP55	IP55
	Impact Protection	IK08	IK08	IK08
	Protection	Over current protection, Residual current protection, Short circuit protection, Ground protection, Surge protection, Over/Under voltage protection, Over temperature protection,Cp protection	Over current/Residual current/ Short circuit/Ground /Surge/Over/Under voltage/Over temperature /Cp .protection	Over current/Residual current/ Short circuit/Ground /Surge/Over/Under voltage/Over temperature /Cp .protection
	Certification	CE	UL	UL
	Certification Standard	IEC 62196 Type2	SAE J1772	SAE J1772
Environment	Warranty	2 years	2 years	2 years
	Installation	Wall-mount/Pole-mount	Wall-mount/Pole-mount	Wall-mount/Pole-mount
	Work Temperature	-30℃~+50℃	- 30℃~ + 55℃	- 30℃~ + 55℃
	Work Humidity	5%~95%	5%~95%	5%~95%
	Work Altitude	<2000m	<2000m	<2000m
Package	Product Dimension	240*110*80mm (H*W*D)	240*110*80mm (H*W*D)	240*110*80mm (H*W*D)
	Package Dimension	400*300*140mm (H*W*D)	400*300*140mm (H*W*D)	400*300*140mm (H*W*D)
	Net Weight	3.5kg	3.5kg	3.5kg
	Gross Weight	4kg	4kg	4kg
	External Package	Carton	Carton	Carton



Do contact
our experts
and share more of
your needs
for this exciting, ever-
growing market.

