Catalog MOTECH

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47
Россия (495)268-04-70
Казахстан (772)734-952-31

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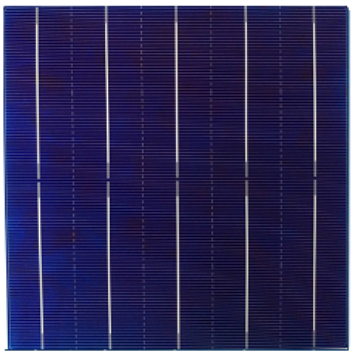
IM156B5 Cell Product Specifications



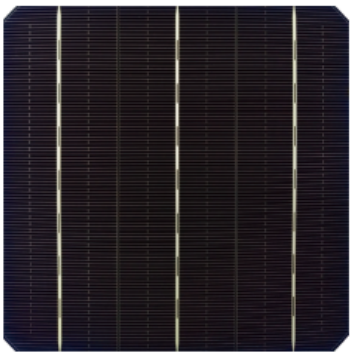
Dimension : 156.75mm x 156.75mm ± 0.25mm

Thickness(Si) : 180μm ± 20μm, 200μm ± 20μm

Front : Blue silicon nitride anti-reflection coatings
0.7±0.1 mm silver busbars

Back : Full-surface aluminum back-surface field
1.7mm±0.1mm (silver / aluminum) discontinuous soldering pads

XS156B3 Cell Product Specifications



Dimension : 156.75mm x 156.75mm ± 0.25mm

Diagonal : 210mm ± 0.25mm (round chamfers)

Thickness(Si) : 180 ± 20μm

Front : Anisotropically texturized surface and dark silicon nitride anti-reflection coatings
1.4mm silver busbars

Back : Full-surface aluminum back surface field
2.0mm (silver / aluminum) discontinuous
soldering pads

XS156B4 Cell Product Specifications

Dimension : 156.75mm x 156.75mm ± 0.25mm

Diagonal : 210mm ± 0.25mm (Round chamfers)

Thickness(Si) : 180 + 20 / -30μm

Front : Anisotropically texturized surface and dark silicon nitride anti-reflection coatings
1mm silver busbars

Back : Local aluminum back-surface field
2mm (silver / aluminum) discontinuous
soldering pads

XS156B5 Cell Product Specifications

Dimension : 156.75mm x 156.75mm ± 0.25mm

Diagonal : 210mm ± 0.25mm (Round chamfers)

Thickness(Si) : 180 + 20 / -30μm

Front : Anisotropically texturized surface and dark silicon nitride anti-reflection coatings
0.7mm silver busbars

Back : Local aluminum back-surface field
1.7mm (silver / aluminum) discontinuous soldering pads

XS158B5 Cell Product Specifications

Dimension : 158.75mm x 158.75mm ± 0.25mm

Thickness(Si) : 180 + 20 / -30μm

Front : Anisotropically texturized surface and dark silicon nitride anti-reflection coatings
0.7±0.1mm silver busbars

Back : Local aluminum back-surface field
1.7±0.1mm (silver / aluminum) discontinuous soldering pads

XS156B5 Cell Product Specifications

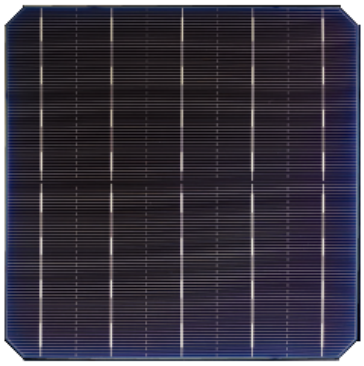
Dimension : 156.75mm x 156.75mm ± 0.25mm

Diagonal : 210mm ± 0.25mm (Round chamfers)

Thickness(Si) : 180 + 20 / -30μm

Front : Anisotropically texturized surface and dark silicon nitride anti-reflection coatings
0.7±0.1mm silver busbars

Back : Local aluminum back-surface field
1.6±0.1mm (silver / aluminum) discontinuous soldering pads



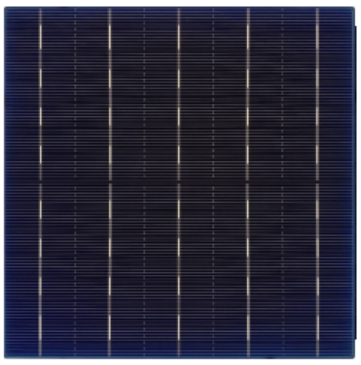
XS158B5 Cell Product Specifications

Dimension : 158.75mm x 158.75mm ± 0.25mm

Thickness(Si) : 180 + 20 / -30μm

Front : Anisotropically texturized surface and dark silicon nitride anti-reflection coatings
0.65±0.1mm silver busbars

Back : Local aluminum back-surface field
1.7±0.1mm (silver / aluminum) discontinuous soldering pads



ENERGY SYSTEM

Motech Power Division was the first professional PV system installer in Taiwan to build a high-quality, high-performance solar photovoltaic system.

Motech is dedicated to the development of PV systems.

More than 500 cases had been installed in Taiwan and worldwide. Motech will continue promoting and implementing solar power, aim to create a sustainable environment for future generation.

Professional solar system consulting, designing, engineering, and construction service
- Team member from PV supply chains
- Professional EPC and O&M service
- Built best performance PV system equipment

Comprehensive after service

Construction project management
- Professional construction scheduling control
- High efficient team of O&M

PV system design and engineering
- Earth quake resistance
- Strong wind resistance
- Salt mist resistance
- Corrosion resistance
- Obey with national safety regulations

Real-time and online systems of electricity generation monitor and control
- On-line monitoring system of electricity generation
- Immediate repair fault and abnormality

Public Buildings

Residential

Farming Houses

Ground-mounted

C&I Roofs

XS60+SERIES PHOTOVOLTAIC MODULES

PEAK POWER: 270-280 Wp

FEATURES INCLUDE:

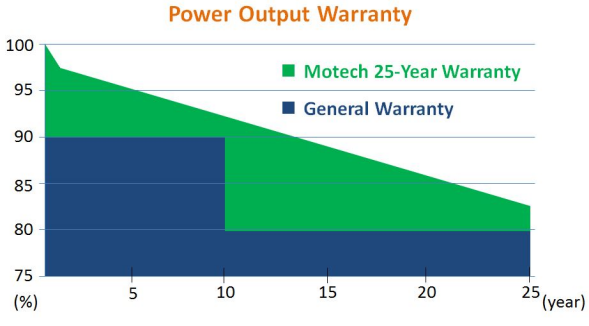
- 60 multicrystalline solar cells connected in series.
- Positive power tolerance of 0~3% improves system performance
- Industry-leading module efficiency:maximum efficiency of 17.21%
- Tested up to 5400Pa for maximum load resistance.
- Verified resistance against PID effects
- Progressive Power Warranty guarantees 83.1% of rated power at 25 years
- Manufactured globally with world-class quality standards

QUALITY, RELIABILITY, AND KWH YIELD

Motech modules are powered by industry acknowledged high performance, reliable silicon cells. 20 years of experience in solar module engineering and design, along with rigorous durability and performance tests, ensure reliable lifetime performance and maximum kWh yield.

25-YEAR PROGRESSIVE WARRANTY*

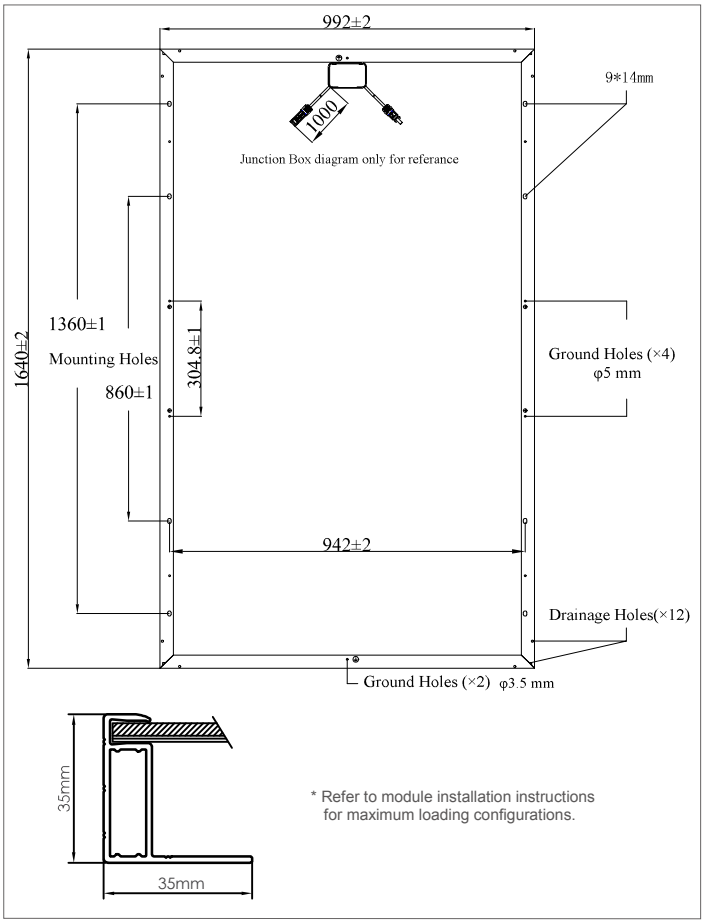
- 25-year progressive power warranty
- 12-year warranty on materials and workmanship



CERTIFICATIONS & STANDARDS*

APPLICATION CLASS A

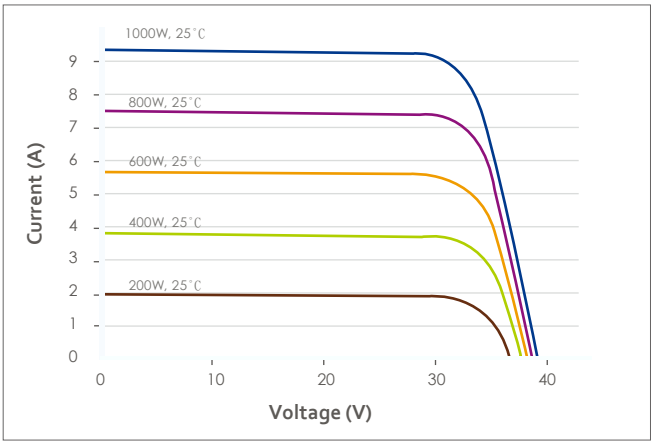
PHYSICAL CHARACTERISTICS



PHYSICAL DESIGN PROPERTIES

Dimension	1640×992×35mm
Weight	18.5 kg±5%
Glass	3.2 mm Tempered Coated PV Glass
Junction Box	IP67/IP68 with 3 bypass diodes
Output Cables	Φ4.0mm², 1000mm
Connectors	MC4 Compatible
Packing	31 pcs/pallet, 868 pcs/container(40'HQ)

IV CURVE



ELECTRICAL PERFORMANCE

Electrical Performance @ STC	IM60CB-270	IM60CB-275	IM60CB-280
Maximum Power Pmax[Wp]	270	275	280
Max. Power Voltage Vmpp(V)	31.69	32.20	32.71
Max. Power Current Impp(A)	8.52	8.54	8.56
Open Circuit Voltage Voc(V)	38.43	38.83	39.23
Short Circuit Current Isc(A)	9.09	9.12	9.15
Module Efficiency (%)	16.60%	16.90%	17.21%

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.05	Maximum Series Fuse Rating	15A
Voc Temperature Coefficient	β (%/°C)	-0.34	Max. System Voltage (IEC)	1000V
Pmax Temperature Coefficient	γ (%/°C)	-0.42	Nominal Operating Cell Temp.(NOCT)	45°C ± 2°C

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m², AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads.
NOCT is measured at 800 W/m², 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice.
Motech reserves the rights of final interpretation and revision on this datasheet.

IM72 SERIES PHOTOVOLTAIC MODULES

PEAK POWER: 325-330 Wp

FEATURES INCLUDE:

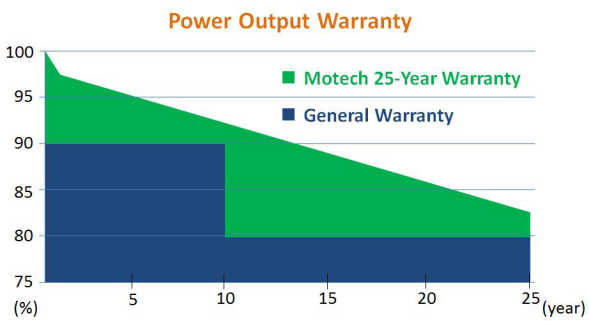
- 72 multicrystalline solar cells connected in series.
- Positive power tolerance of 0~3% improves system performance
- Industry-leading module efficiency:maximum efficiency of 16.92%
- Tested up to 5400Pa for maximum load resistance.
- Verified resistance against PID effects
- Progressive Power Warranty guarantees 83.1% of rated power at 25 years
- Manufactured globally with world-class quality standards

QUALITY, RELIABILITY, AND KWH YIELD

Motech modules are powered by industry acknowledged high performance, reliable silicon cells. 20 years of experience in solar module engineering and design, along with rigorous durability and performance tests, ensure reliable lifetime performance and maximum kWh yield.

25-YEAR PROGRESSIVE WARRANTY*

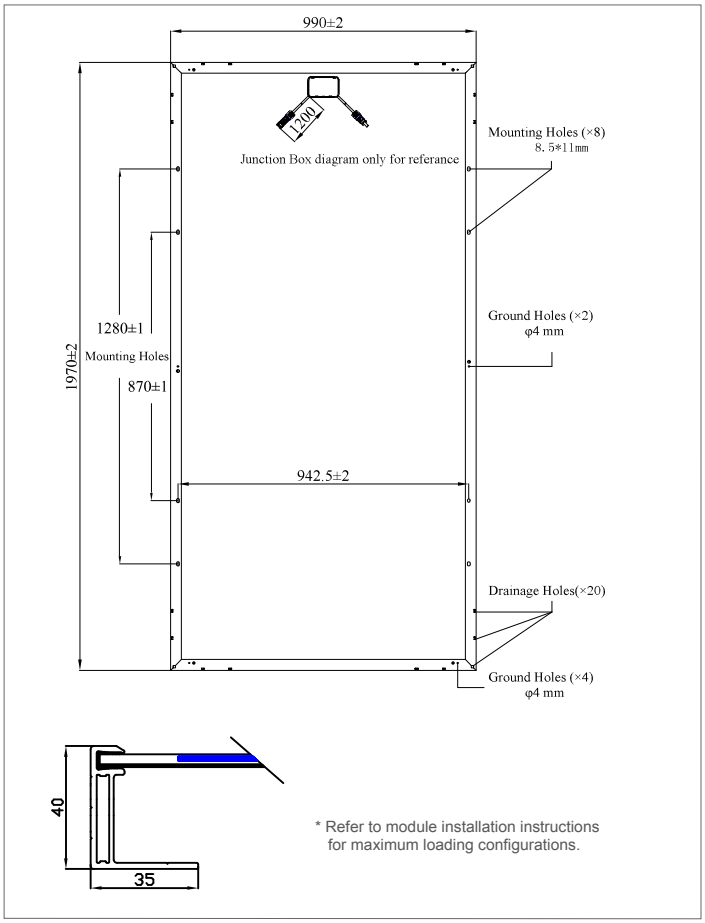
- 25-year progressive power warranty
- 12-year warranty on materials and workmanship



CERTIFICATIONS & STANDARDS*

APPLICATION CLASS A

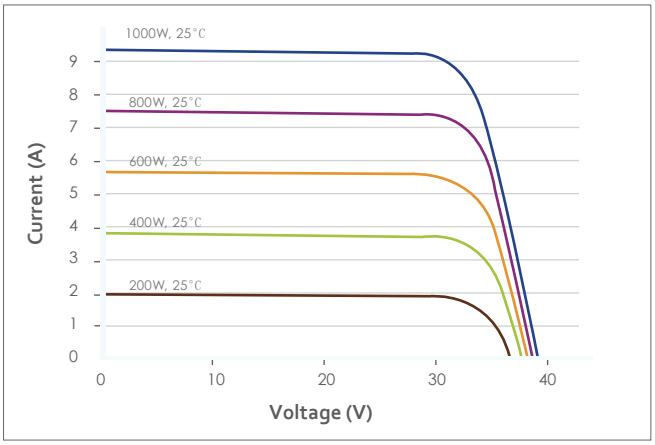
PHYSICAL CHARACTERISTICS



PHYSICAL DESIGN PROPERTIES

Dimension	1970×990×40mm
Weight	23 kg±5%
Glass	3.2 mm Tempered Coated PV Glass
Junction Box	IP67/IP68 with 3 bypass diodes
Output Cables	Φ4.0mm², 1200mm
Connectors	MC4 Compatible
Packing	27 pcs/pallet, 594 pcs/container(40'HQ)

IV CURVE



ELECTRICAL PERFORMANCE

Electrical Performance @ STC	IM72CB-325	IM72CB-330
Maximum Power Pmax[Wp]	325	330
Max. Power Voltage Vmpp(V)	37.41	37.64
Max. Power Current Impp(A)	8.69	8.77
Open Circuit Voltage Voc(V)	46.21	46.51
Short Circuit Current Isc(A)	9.18	9.24
Module Efficiency (%)	16.66%	16.92%

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.05	Maximum Series Fuse Rating	15A
Voc Temperature Coefficient	β (%/°C)	-0.34	Max. System Voltage (IEC)	1000V
Pmax Temperature Coefficient	γ (%/°C)	-0.42	Nominal Operating Cell Temp.(NOCT)	45°C ± 2°C

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m², AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads.
NOCT is measured at 800 W/m², 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice.
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XS60+SERIES HALF-CUT PV MODULES

PEAK POWER: 330-340 Wp

FEATURES INCLUDE:

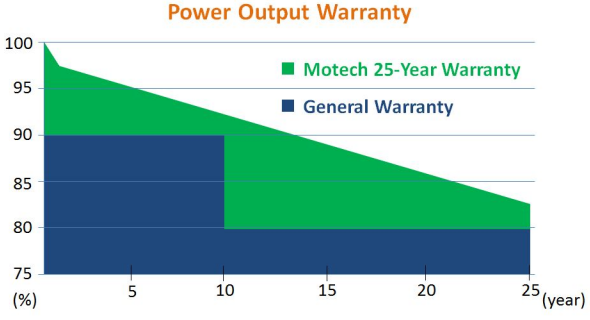
- 60 monocrystalline solar cells comprised in series.
- Positive power tolerance of 0~+3% improves system performance.
- Industry-leading module efficiency: maximum efficiency of 20.15%.
- Tested up to 5400Pa for maximum load resistance.
- Verified resistance against PID effects.
- Progressive Power Warranty guarantees 83.1% of rated power at 25 years.
- Manufactured globally with world-class quality standards

QUALITY, RELIABILITY, AND KWH YIELD

MOTECH modules are powered by industry acknowledged high performance, reliable silicon cells. 20 years of experience in solar module engineering and design, along with rigorous durability and performance tests, ensure reliable lifetime performance and maximum kWh yield.

25-YEAR PROGRESSIVE WARRANTY*

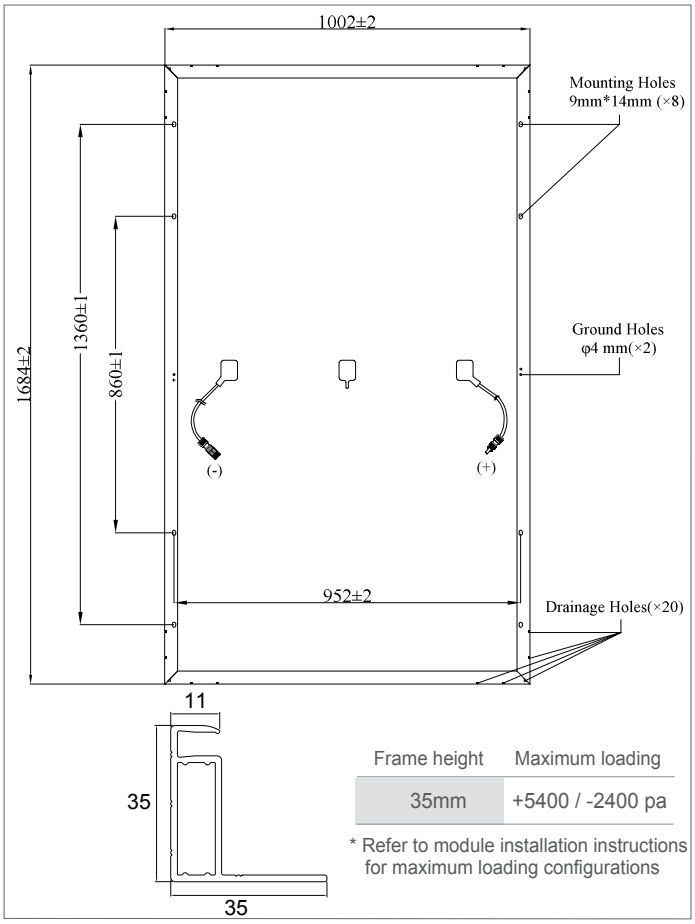
- 25-year progressive power warranty
- 12-year warranty on materials and workmanship



CERTIFICATIONS & STANDARDS*

CE IEC ETL EU Intertek APPLICATION CLASS A

PHYSICAL CHARACTERISTICS



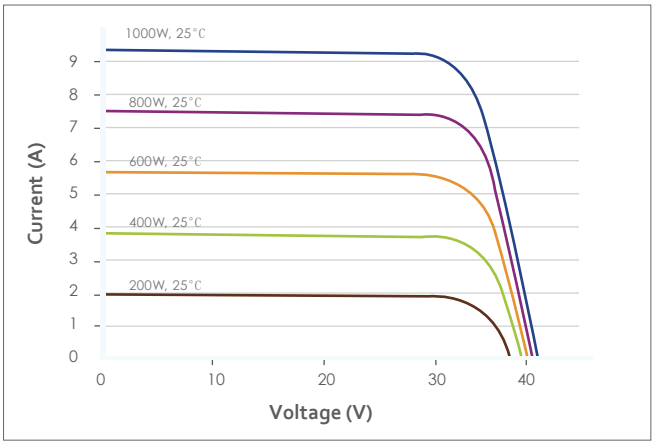
Frame height	Maximum loading
35mm	+5400 / -2400 pa

* Refer to module installation instructions for maximum loading configurations

PHYSICAL DESIGN PROPERTIES

Dimension	1684×1002×35mm
Weight	18.8 kg±5%
Glass	3.2 mm Tempered Coated PV Glass
Junction Box	IP68 with 3 bypass diodes
Output Cables	Φ4.0mm²,P(+) 300mm /N(-) 400mm
Connectors	MC4 Compatible
Packing	31 pcs/pallet, 806 pcs/container(40'HQ)

IV CURVE



ELECTRICAL PERFORMANCE

Electrical Performance @ STC	XS60CA-330	XS60CA-335	XS60CA-340
Maximum Power Pmax[Wp]	330	335	340
Max. Power Voltage Vmpp(V)	33.9	34.1	34.3
Max. Power Current Impp(A)	9.74	9.83	9.92
Open Circuit Voltage Voc(V)	41.0	41.2	41.4
Short Circuit Current Isc(A)	10.33	10.38	10.44
Module Efficiency (%)	19.56%	19.85%	20.15%

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.048	Maximum Series Fuse Rating	15A
Voc Temperature Coefficient	β (%/°C)	-0.28	Max. System Voltage (IEC)	1000V
Pmax Temperature Coefficient	γ (%/°C)	-0.36	Nominal Operating Cell Temp.(NOCT)	45°C ± 2°C

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m², AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads.
NOCT is measured at 800 W/m², 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice.
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XS60+SERIES PHOTOVOLTAIC MODULES

PEAK POWER: 310-315 Wp

FEATURES INCLUDE:

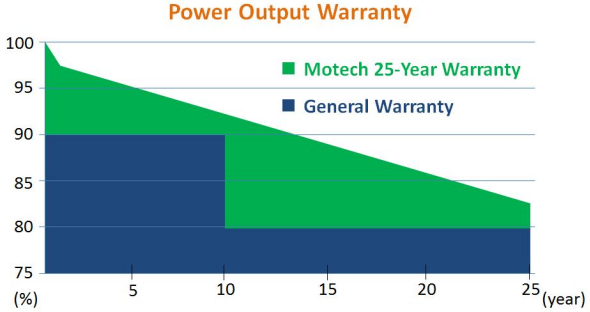
- 60 monocrystalline solar cells connected in series.
- Positive power tolerance of 0~3% improves system performance
- Industry-leading module efficiency:maximum efficiency of 19.67%
- Tested up to 5400Pa for maximum load resistance.
- Verified resistance against PID effects
- Progressive Power Warranty guarantees 83.1% of rated power at 25 years
- Manufactured globally with world-class quality standards

QUALITY, RELIABILITY, AND KWH YIELD

Modules are powered by industry acknowledged high performance, reliable silicon cells. 20 years of experience in solar module engineering and design, along with rigorous durability and performance tests, ensure reliable lifetime performance and maximum kWh yield.

25-YEAR PROGRESSIVE WARRANTY*

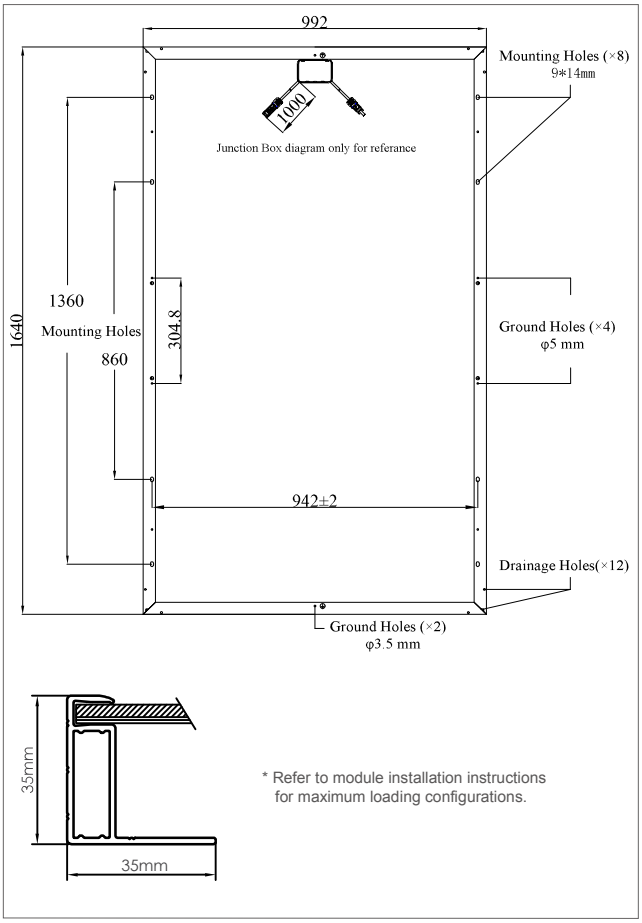
- 25-year progressive power warranty
- 12-year warranty on materials and workmanship



CERTIFICATIONS & STANDARDS*

CE IEC ETL EU Intertek APPLICATION CLASS A

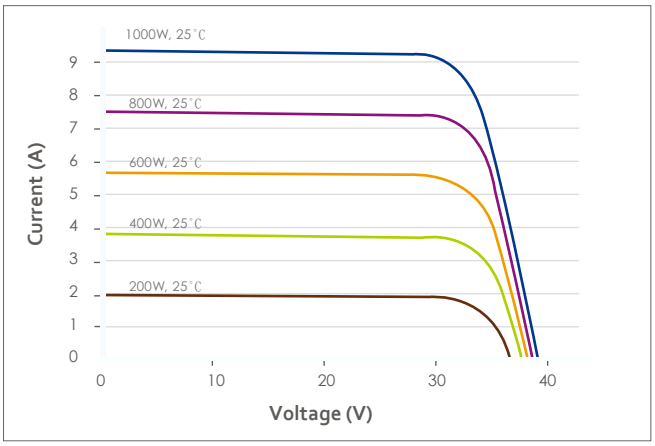
PHYSICAL CHARACTERISTICS



PHYSICAL DESIGN PROPERTIES

Dimension	1640×992×35mm
Weight	18.5 kg±5%
Glass	3.2 mm Tempered Coated PV Glass
Junction Box	IP67 or above with 3 bypass diodes
Output Cables	Φ4.0mm², 1000mm
Connectors	MC4 Compatible
Packing	31 pcs/pallet, 868 pcs/container(40'HQ)

IV CURVE



ELECTRICAL PERFORMANCE

Electrical Performance @ STC	XS60CB-310	XS60CB-315
Maximum Power Pmax[Wp]	310	315
Max. Power Voltage Vmpp(V)	33.26	33.55
Max. Power Current Impp(A)	9.32	9.39
Open Circuit Voltage Voc(V)	39.19	39.33
Short Circuit Current Isc(A)	9.53	9.56
Module Efficiency (%)	19.05%	19.36%

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.06	Maximum Series Fuse Rating	15A
Voc Temperature Coefficient	β (%/°C)	-0.33	Max. System Voltage (IEC)	1000V
Pmax Temperature Coefficient	γ (%/°C)	-0.41	Nominal Operating Cell Temp.(NOCT)	45°C ± 2°C

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m², AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads. NOCT is measured at 800 W/m², 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice.

Motech reserves the rights of final interpretation and revision on this datasheet.

XS60+SERIES HALF-CUT PV MODULES

PEAK POWER: 365-375 Wp

FEATURES INCLUDE:

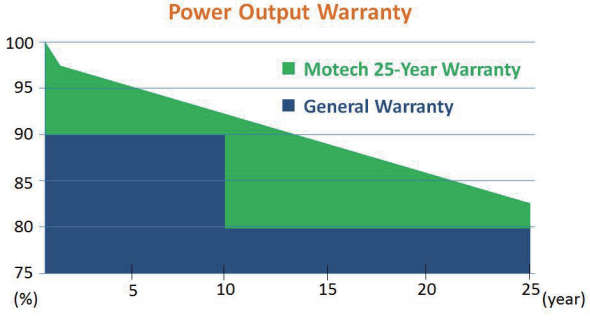
- 60 monocrystalline solar cells comprised in series.
- Positive power tolerance of 0~+3% improves system performance.
- Industry-leading module efficiency: maximum efficiency of 20.27%.
- Tested up to 5400Pa for maximum load resistance.
- Verified resistance against PID effects.
- Progressive Power Warranty guarantees 83.1% of rated power at 25 years.
- Manufactured globally with world-class quality standards

QUALITY, RELIABILITY, AND KWH YIELD

MOTECH modules are powered by industry acknowledged high performance, reliable silicon cells. 20 years of experience in solar module engineering and design, along with rigorous durability and performance tests, ensure reliable lifetime performance and maximum kWh yield.

25-YEAR PROGRESSIVE WARRANTY*

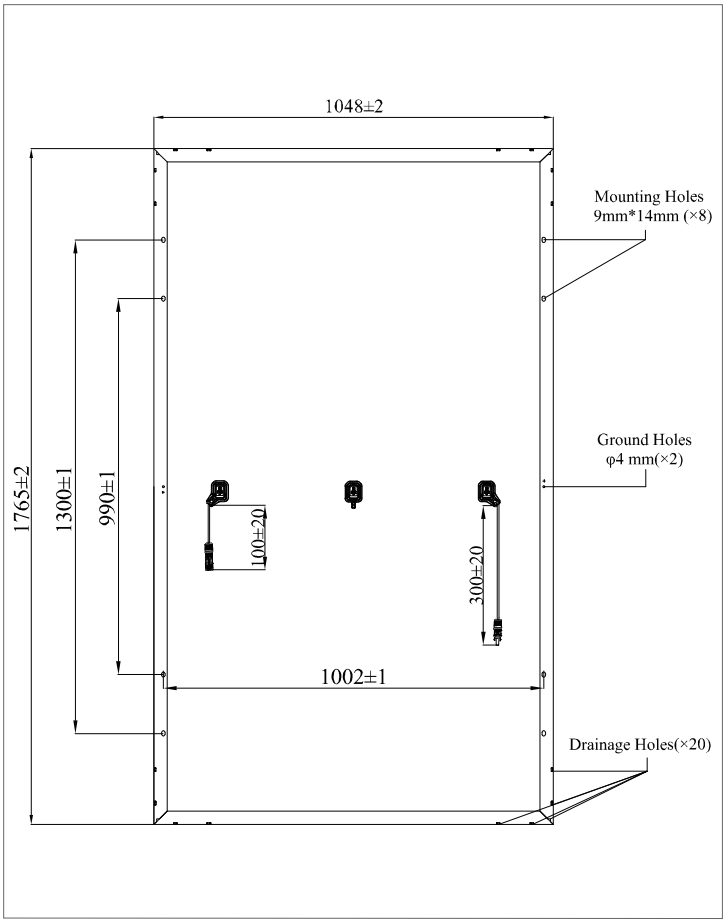
- 25-year progressive power warranty
- 12-year warranty on materials and workmanship



CERTIFICATIONS & STANDARDS*

Application Class A

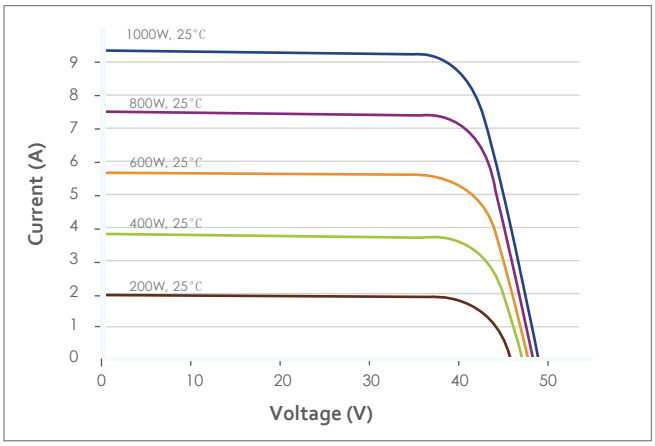
PHYSICAL CHARACTERISTICS



PHYSICAL DESIGN PROPERTIES

Dimension	1765×1048×35mm
Weight	21.0 ±1kg
Glass	3.2 mm Tempered Coated PV Glass
Junction Box	IP68 with 3 bypass diodes
Output Cables	Φ4.0mm²,P(+) 300mm /N(-) 100mm
Connectors	MC4 Compatible
Packing	31 pcs/pallet, 806 pcs/container(40'HQ)

IV CURVE



ELECTRICAL PERFORMANCE

Electrical Performance @ STC	XS60CE-365	XS60CE-370	XS60CE-375
Maximum Power Pmax[Wp]	365	370	375
Max. Power Voltage Vmpp(V)	35.3	35.5	35.7
Max. Power Current Impp(A)	10.34	10.43	10.51
Open Circuit Voltage Voc(V)	42.4	[illegible]	42.8
Short Circuit Current Isc(A)	10.69	10.74	10.81
Module Efficiency (%)	19.73%	20.00%	20.27%

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.032	Maximum Series Fuse Rating	20A
Voc Temperature Coefficient	β (%/°C)	-0.263	Max. System Voltage (IEC)	1500V
Pmax Temperature Coefficient	γ (%/°C)	-0.347	Nominal module operating temperature(NMOT)	41°C ± 3°C

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m², AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads.
NMOT is measured at 800 W/m², 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice.
Motech reserves the rights of final interpretation and revision on this datasheet.

XS72+SERIES HALF-CUT PV MODULES

PEAK POWER: 395-410 Wp

FEATURES INCLUDE:

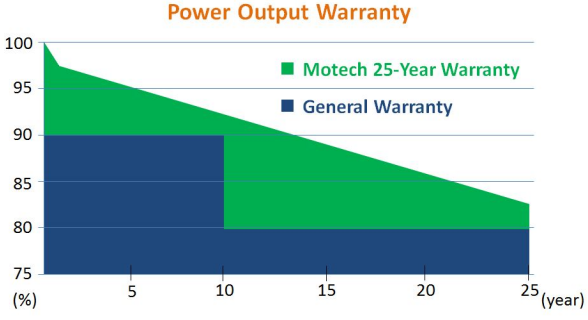
- 72 monocrystalline solar cells connected in series.
- Positive power tolerance of 0~+3% improves system performance.
- Industry-leading module efficiency: maximum efficiency of 20.38%.
- Tested up to 5400Pa for maximum load resistance.
- Verified resistance against PID effects.
- Progressive Power Warranty guarantees 83.1% of rated power at 25 years.
- Manufactured globally with world-class quality standards

QUALITY, RELIABILITY, AND KWH YIELD

MOTECH modules are powered by industry acknowledged high performance, reliable silicon cells. 20 years of experience in solar module engineering and design, along with rigorous durability and performance tests, ensure reliable lifetime performance and maximum kWh yield.

25-YEAR PROGRESSIVE WARRANTY*

- 25-year progressive power warranty
- 12-year warranty on materials and workmanship

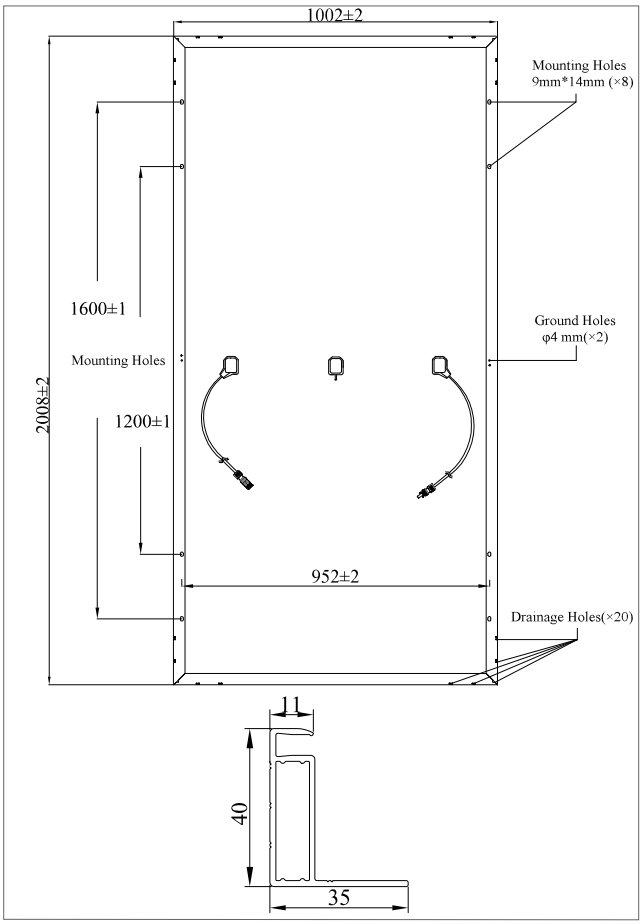


CERTIFICATIONS & STANDARDS*

IEC CE ETL EU Intertek

Application Class A
Safety Class II

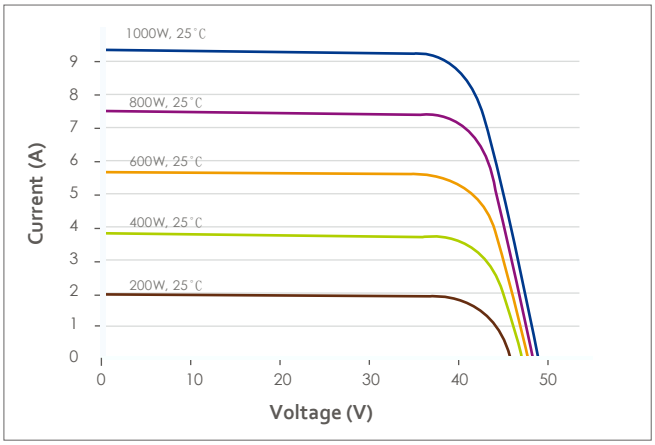
PHYSICAL CHARACTERISTICS



PHYSICAL DESIGN PROPERTIES

Dimension	2008×1002×40mm
Weight	23 kg±5%
Glass	3.2 mm Tempered Coated PV Glass
Junction Box	IP68 with 3 bypass diodes
Output Cables	Φ4.0mm²,P(+) 300mm /N(-) 400mm
Connectors	MC4 Compatible
Packing	27 pcs/pallet, 594 pcs/container(40'HQ)

IV CURVE



ELECTRICAL PERFORMANCE

Electrical Performance @ STC	XS72CA-395	XS72CA-400	XS72CA-405	XS72CA-410
Maximum Power Pmax[Wp]	395	400	405	410
Max. Power Voltage Vmpp(V)	41.5	41.8	42.0	42.2
Max. Power Current Impp(A)	9.52	9.57	9.65	9.72
Open Circuit Voltage Voc(V)	49.4	49.6	49.8	50.0
Short Circuit Current Isc(A)	10.12	10.16	10.23	10.29
Module Efficiency (%)	19.63%	19.88%	20.13%	20.38%

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.048	Maximum Series Fuse Rating	15A
Voc Temperature Coefficient	β (%/°C)	-0.28	Max. System Voltage (IEC)	1500V
Pmax Temperature Coefficient	γ (%/°C)	-0.37	Nominal Operating Cell Temp.(NOCT)	45°C ± 2°C

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m², AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads.
NOCT is measured at 800 W/m², 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice.
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XS72+SERIES PHOTOVOLTAIC MODULES

PEAK POWER: 370-375 Wp

FEATURES INCLUDE:

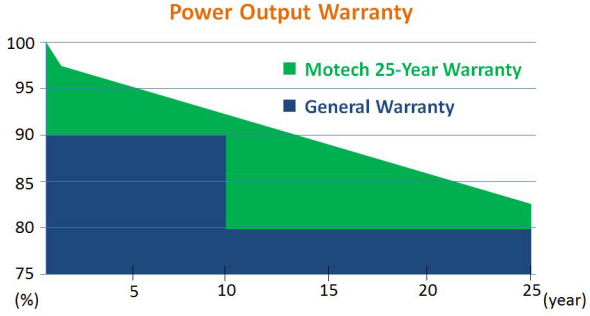
- 72 monocrystalline solar cells connected in series.
- Positive power tolerance of 0~3% improves system performance
- Industry-leading module efficiency:maximum efficiency of 19.33%
- Tested up to 5400Pa for maximum load resistance.
- Verified resistance against PID effects
- Progressive Power Warranty guarantees 83.1% of rated power at 25 years
- Manufactured globally with world-class quality standards

QUALITY, RELIABILITY, AND KWH YIELD

Modules are powered by industry acknowledged high performance, reliable silicon cells. 20 years of experience in solar module engineering and design, along with rigorous durability and performance tests, ensure reliable lifetime performance and maximum kWh yield.

25-YEAR PROGRESSIVE WARRANTY*

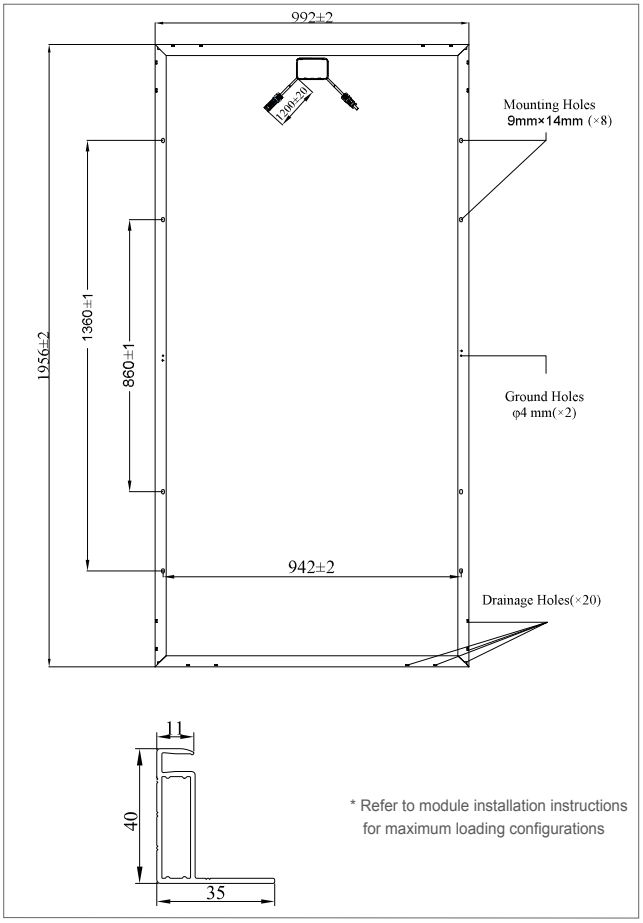
- 25-year progressive power warranty
- 12-year warranty on materials and workmanship



CERTIFICATIONS & STANDARDS*

CE IEC ETL EU Intertek APPLICATION CLASS A

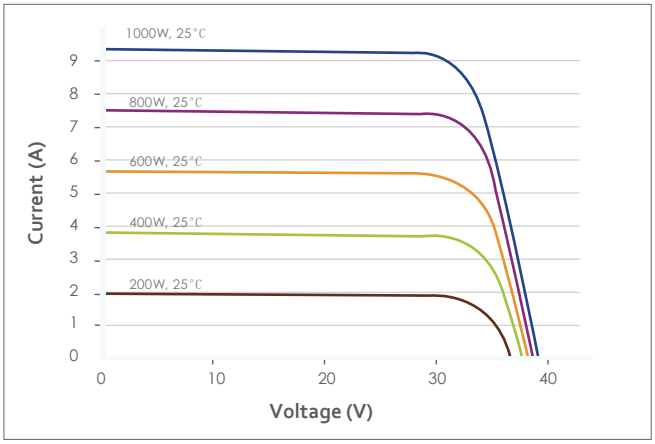
PHYSICAL CHARACTERISTICS



PHYSICAL DESIGN PROPERTIES

Dimension	1956×992×40mm
Weight	23 kg±5%
Glass	3.2 mm Tempered Coated PV Glass
Junction Box	IP68 with 3 bypass diodes
Output Cables	Φ4.0mm², 1200mm
Connectors	MC4 Compatible
Packing	27 pcs/pallet, 594 pcs/container(40'HQ)

IV CURVE



ELECTRICAL PERFORMANCE

Electrical Performance @ STC	XS72CB-370	XS72CB-375
Maximum Power Pmax[Wp]	370	375
Max. Power Voltage Vmpp(V)	39.83	40.02
Max. Power Current Impp(A)	9.29	9.37
Open Circuit Voltage Voc(V)	49.12	49.42
Short Circuit Current Isc(A)	9.50	9.53
Module Efficiency (%)	19.07%	19.33%

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.06	Maximum Series Fuse Rating	15A
Voc Temperature Coefficient	β (%/°C)	-0.33	Max. System Voltage (IEC)	1000V
Pmax Temperature Coefficient	γ (%/°C)	-0.41	Nominal Operating Cell Temp.(NOCT)	45°C ± 2°C

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m², AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads.
NOCT is measured at 800 W/m², 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice.
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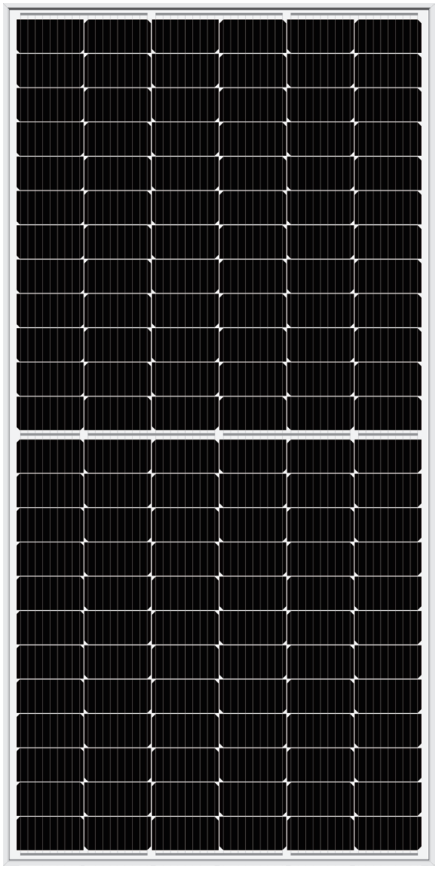
XS72+SERIES HALF-CUT PV MODULES

PEAK POWER: 435-445 Wp



FEATURES INCLUDE:

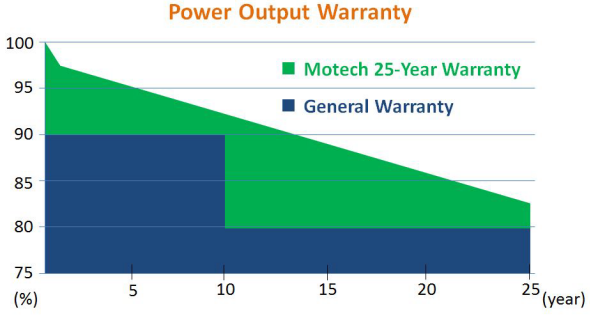
- 72 monocrystalline solar cells comprised in series.
- Positive power tolerance of 0~+3% improves system performance.
- Industry-leading module efficiency: maximum efficiency of 20.14%.
- Tested up to 5400Pa for maximum load resistance.
- Verified resistance against PID effects.
- Progressive Power Warranty guarantees 83.1% of rated power at 25 years.
- Manufactured globally with world-class quality standards

QUALITY, RELIABILITY, AND KWH YIELD

MOTECH modules are powered by industry acknowledged high performance, reliable silicon cells. 20 years of experience in solar module engineering and design, along with rigorous durability and performance tests, ensure reliable lifetime performance and maximum kWh yield.

25-YEAR PROGRESSIVE WARRANTY*

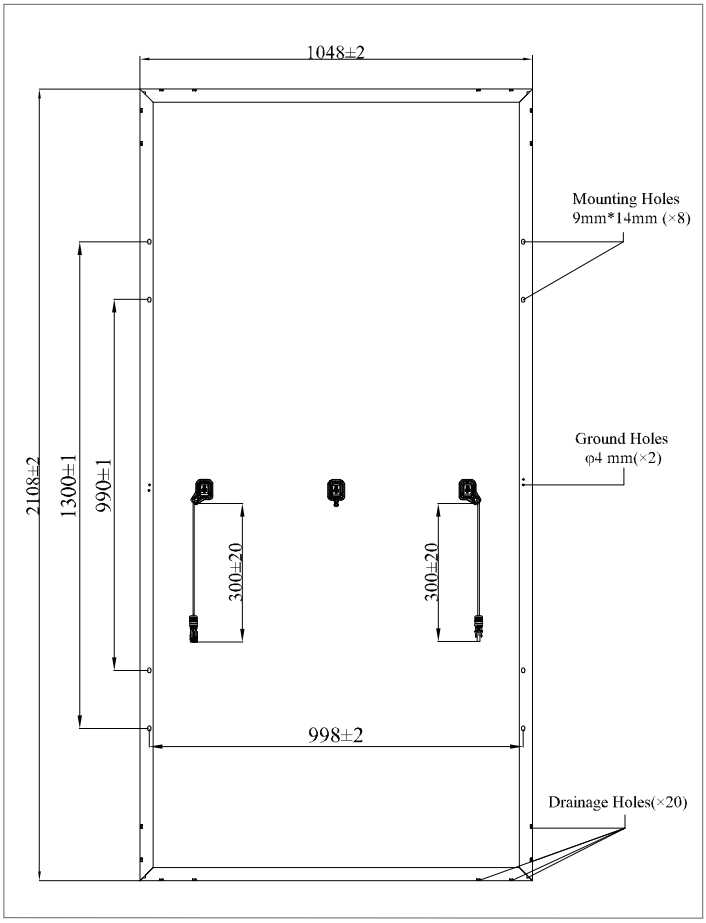
- 25-year progressive power warranty
- 12-year warranty on materials and workmanship



CERTIFICATIONS & STANDARDS*

Application Class A

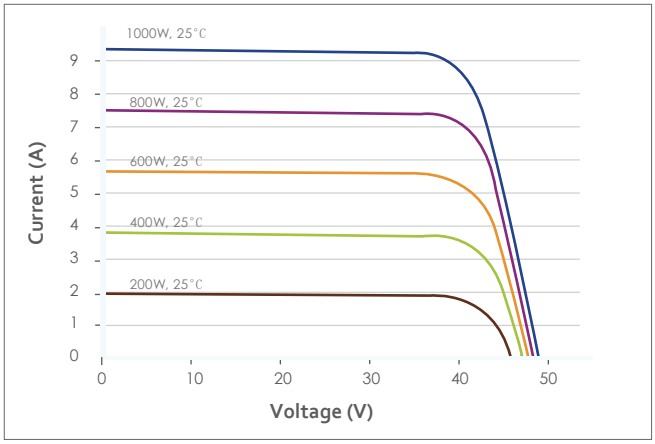
PHYSICAL CHARACTERISTICS



PHYSICAL DESIGN PROPERTIES

Dimension	2108×1048×40 or 35mm
Weight	25.0 ±1kg
Glass	3.2 mm Tempered Coated PV Glass
Junction Box	IP68 with 3 bypass diodes
Output Cables	Φ4.0mm²,P(+) 300mm /N(-) 300mm
Connectors	MC4 Compatible
Packing	27 pcs/pallet, 594 pcs/container(40'HQ)

IV CURVE



ELECTRICAL PERFORMANCE

Electrical Performance @ STC		XS72CE-435	XS72CE-440	XS72CE-445
Maximum Power Pmax[Wp]		435	440	445
Max. Power Voltage	Vmpp(V)	40.9	41.1	41.3
Max. Power Current	Impp(A)	10.64	10.71	10.78
Open Circuit Voltage	Voc(V)	48.7	49.0	49.1
Short Circuit Current	Isc(A)	11.42	11.50	11.57
Module Efficiency (%)		19.69%	19.92%	20.14%

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.032	Maximum Series Fuse Rating	20A
Voc Temperature Coefficient	β (%/°C)	-0.263	Max. System Voltage (IEC)	1500V
Pmax Temperature Coefficient	γ (%/°C)	-0.347	Nominal module operating temperature(NMOT)	41°C ± 3°C

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m², AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads.
NOCT is measured at 800 W/m², 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice.
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