

Engineered
in Germany

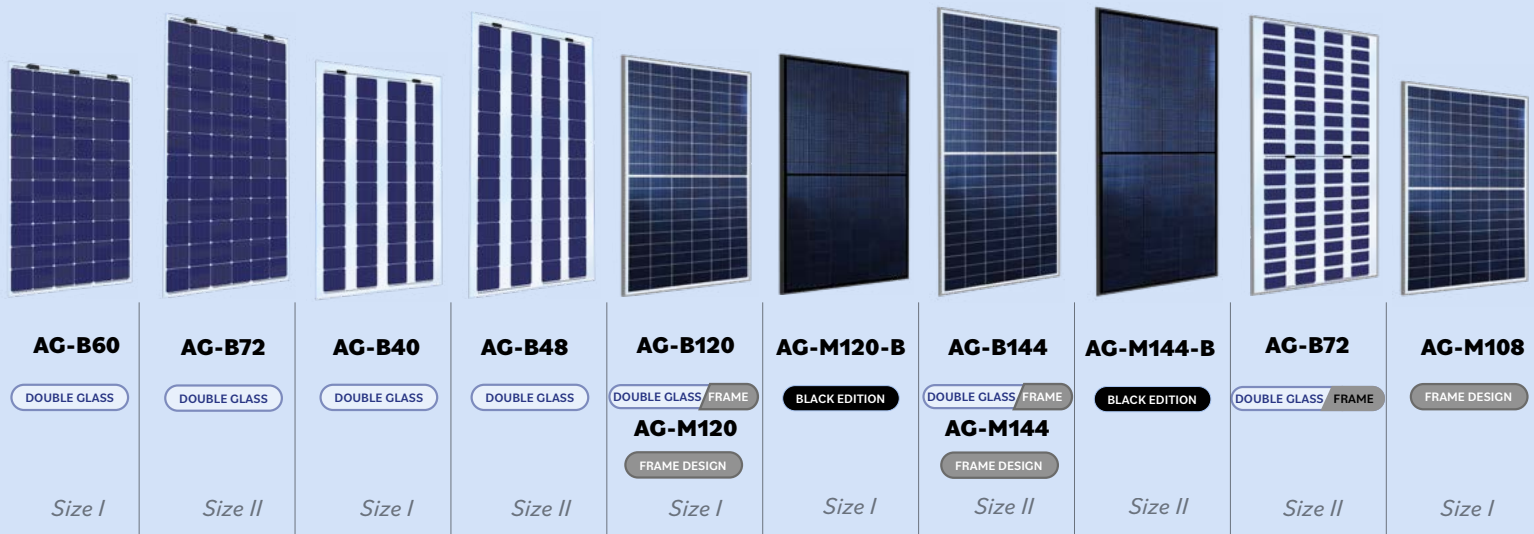


www.agora-solar.com

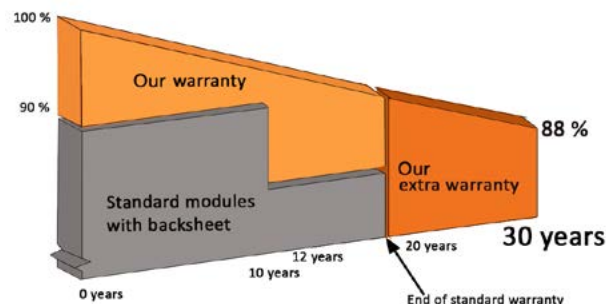
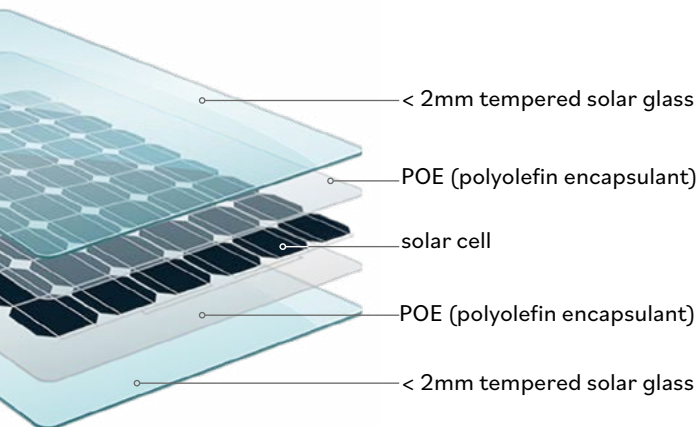


Semi-transparent Double Glass and Premium High Power Modules
Best for: BIPV • AgriPV • Facades • Roofs • Power Plants

Double Glass Modules

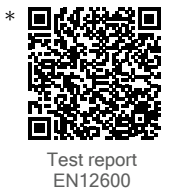


2mm tempered solar glass with extremely durable anti-reflecting coating



Outstanding properties of our Modules

- Slim Module Design - Ultrathin - Ultralight
- High transparent double glass design
- Outstanding performance in case of wind/snow load
- Resistant to environmental influences
- Easy Cleaning
- No Micro Cracks
- Fire Resistance
- Predominant low light performance
- Extended Guarantee
- Positive power output tolerance (plussorting)
- PID free



AG-B60 - 370 Wp

double glass modules with monocrystalline cells

60
cells

12%
transparency

size I

size II

CERTIFIED DOUBLE GLASS MODULES ACCORDING
TO EN12600 FOR OVERHEAD MOUNTING

Electrical Specification (STC)

Maximum Power at (Pmax)	370 Wp
Optimum Operating Voltage (Vmp)	36.9 V
Optimum Operating Current (Imp)	10.03 A
Open Circuit Voltage (Voc)	42.2 V
Short Circuit Current (Isc)	11.25 A
Module Efficiency	20,1%
Maximum System Voltage	1500 V DC (IEC)
Operating Module Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W

Temperature Specification

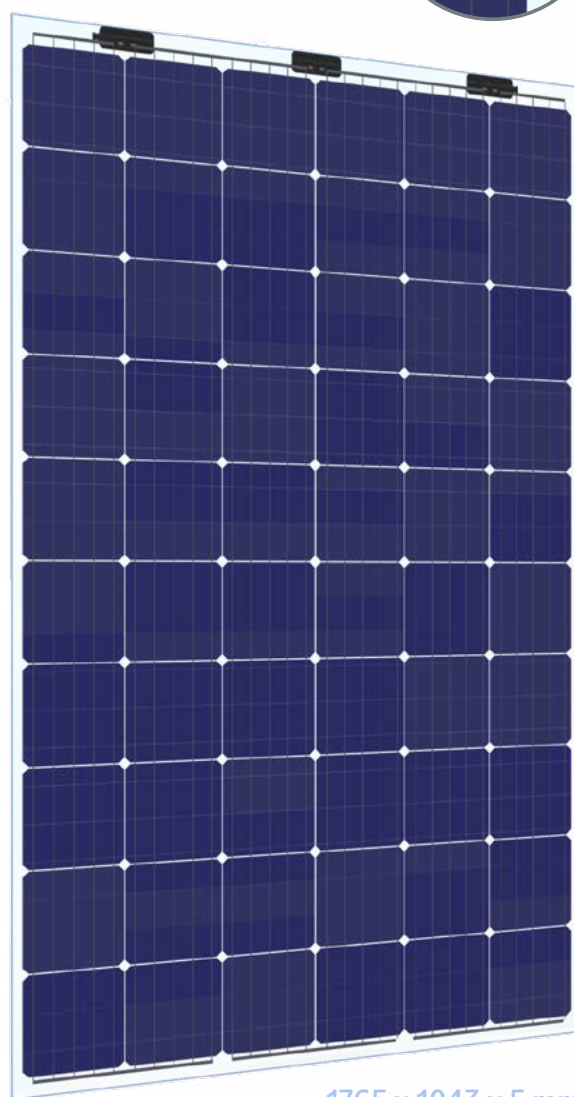
Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.35 %/°C
Temperature Coefficient of Voc	-0.28 %/°C
Temperature Coefficient of Isc	0.04 %/°C

Mechanical Specification

Solar Cell	Bifacial, 9BB
No. of Cells	60 (6 × 10)
Dimensions Size 1	1765 × 1043 × 5 mm (without J-box)
Weight Size 1	22 kg
Front/Back Glass	2 mm heat strengthened glass
Junction Box	IP68 rated (three bypass diodes)
Output Cables	4.0 mm ² , symmetrical lengths (600 mm)
Connectors	MC4 compatible
Fire Safety Class	Class C

Packing Configuration 40' HC Container

Pieces per pallet	33
Pallets per container	26
Pieces per container	858



1765 × 1043 × 5 mm
± 2 mm

Certificates



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IEC61215 / IEC61730



AG-B72 - 450 Wp

double glass modules with monocrystalline cells

72
cells

12%
transparency

size I

size II

CERTIFIED DOUBLE GLASS MODULES ACCORDING
TO EN12600 FOR OVERHEAD MOUNTING

Electrical Specification (STC)

Maximum Power at (P _{max})	450 Wp
Optimum Operating Voltage (V _{mp})	44.5 V
Optimum Operating Current (I _{mp})	10.11 A
Open Circuit Voltage (V _{oc})	50.8 V
Short Circuit Current (I _{sc})	11.29 A
Module Efficiency	20.5 %
Maximum System Voltage	1500 V DC (IEC)
Operating Module Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W

Temperature Specification

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of P _{max}	-0.35 %/°C
Temperature Coefficient of V _{oc}	-0.28 %/°C
Temperature Coefficient of I _{sc}	0.04 %/°C

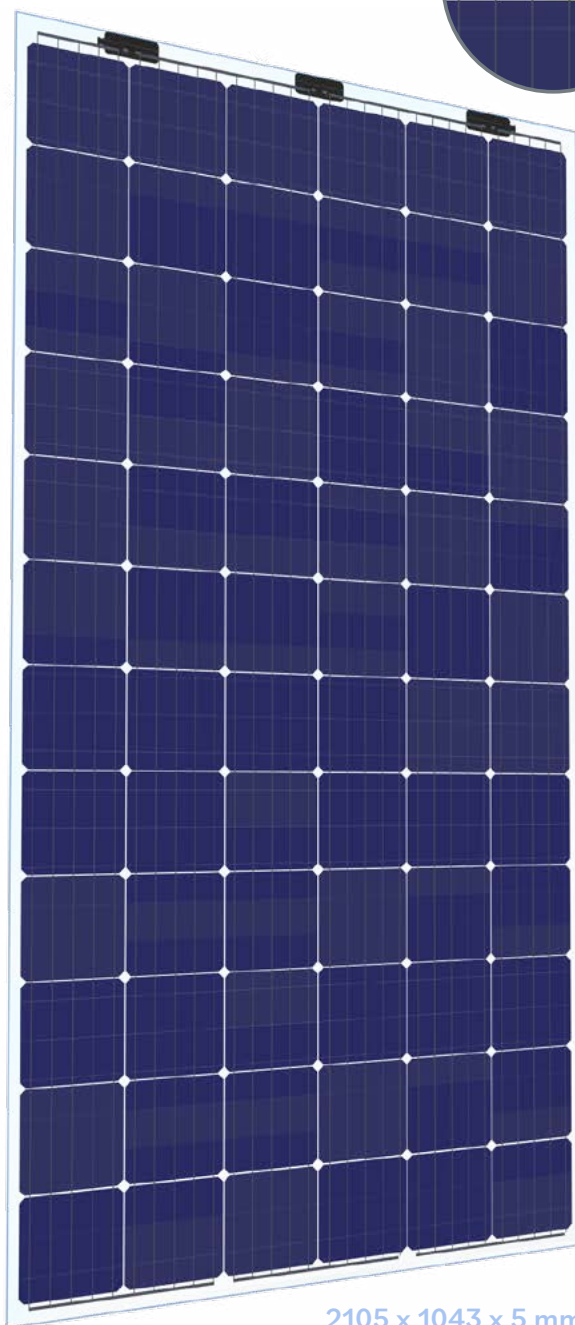
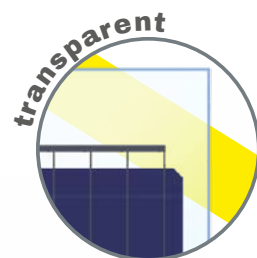
Mechanical Specification

Solar Cell	Bifacial, 9BB
No. of Cells	72 (6 x 12)
Dimensions Size 2	2105 x 1043 x 5 mm (without J-box)
Weight Size 2	26 kg
Front/Back Glass	2 mm heat strengthened glass
Junction Box	IP68 rated (three bypass diodes)
Output Cables	4.0 mm ² , symmetrical lengths (600 mm)
Connectors	MC4 compatible
Fire Safety Class	Class C

Packing Configuration

40' HC Container

Pieces per pallet	33
Pallets per container	22
Pieces per container	726



2105 x 1043 x 5 mm
± 2 mm

Certificates



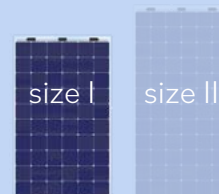
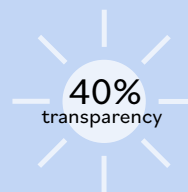
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AG-B40 - 245 Wp

double glass modules with monocrystalline cells

40
cells



CERTIFIED DOUBLE GLASS MODULES ACCORDING
TO EN12600 FOR OVERHEAD MOUNTING

Electrical Specification (STC)

Maximum Power at (Pmax)	245 Wp
Optimum Operating Voltage (Vmp)	24.5 V
Optimum Operating Current (Imp)	10.00 A
Open Circuit Voltage (Voc)	28.2 V
Short Circuit Current (Isc)	11.16 A
Module Efficiency	13.3 %
Maximum System Voltage	1500 V DC (IEC)
Operating Module Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W

Temperature Specification

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.35 %/°C
Temperature Coefficient of Voc	-0.28 %/°C
Temperature Coefficient of Isc	0.04 %/°C

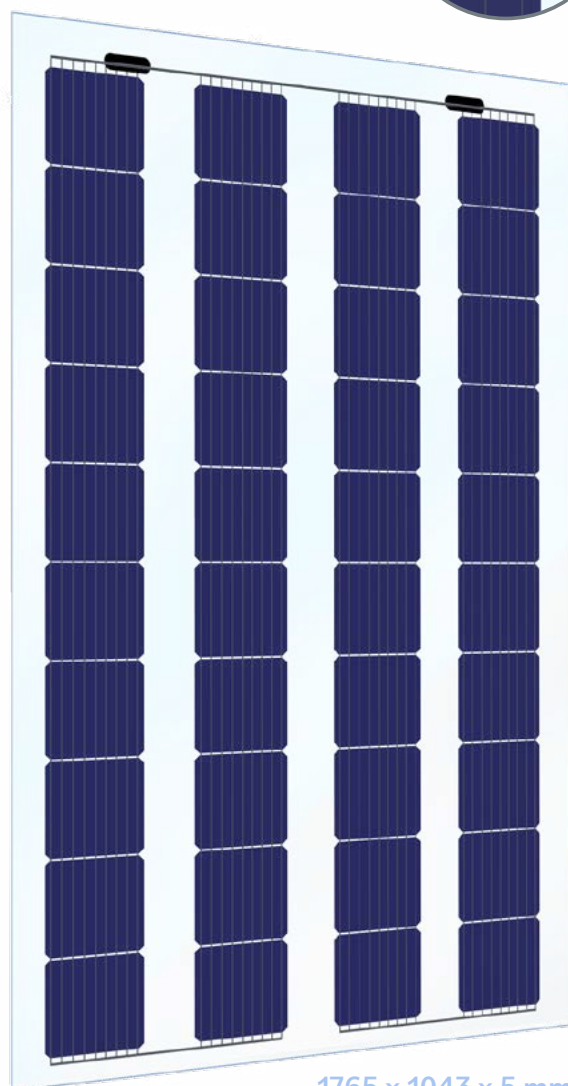
Mechanical Specification

Solar Cell	Bifacial, 9BB
No. of Cells	40 (4 x 10)
Dimensions Size 1	1765 x 1043 x 5 mm (without J-box)
Weight Size 1	22 kg
Front/Back Glass	2 mm heat strengthened glass
Junction Box	IP68 rated (two bypass diodes)
Output Cables	4.0 mm ² , symmetrical lengths (600 mm)
Connectors	MC4 compatible
Fire Safety Class	Class C

Packing Configuration

40' HC Container

Pieces per pallet	33
Pallets per container	26
Pieces per container	858



1765 x 1043 x 5 mm
± 2 mm

Certificates



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AG-B48 - 300 Wp

double glass modules with monocrystalline cells

48
cells

40%
transparency

size I

size II

CERTIFIED DOUBLE GLASS MODULES ACCORDING
TO EN12600 FOR OVERHEAD MOUNTING

Electrical Specification (STC)

Maximum Power at (Pmax)	300 Wp
Optimum Operating Voltage (Vmp)	29.7 V
Optimum Operating Current (Imp)	10.11 A
Open Circuit Voltage (Voc)	34.2 V
Short Circuit Current (Isc)	11.26 A
Module Efficiency	13.7 %
Maximum System Voltage	1500 V DC (IEC)
Operating Module Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W

Temperature Specification

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.35 %/°C
Temperature Coefficient of Voc	-0.28 %/°C
Temperature Coefficient of Isc	0.04 %/°C

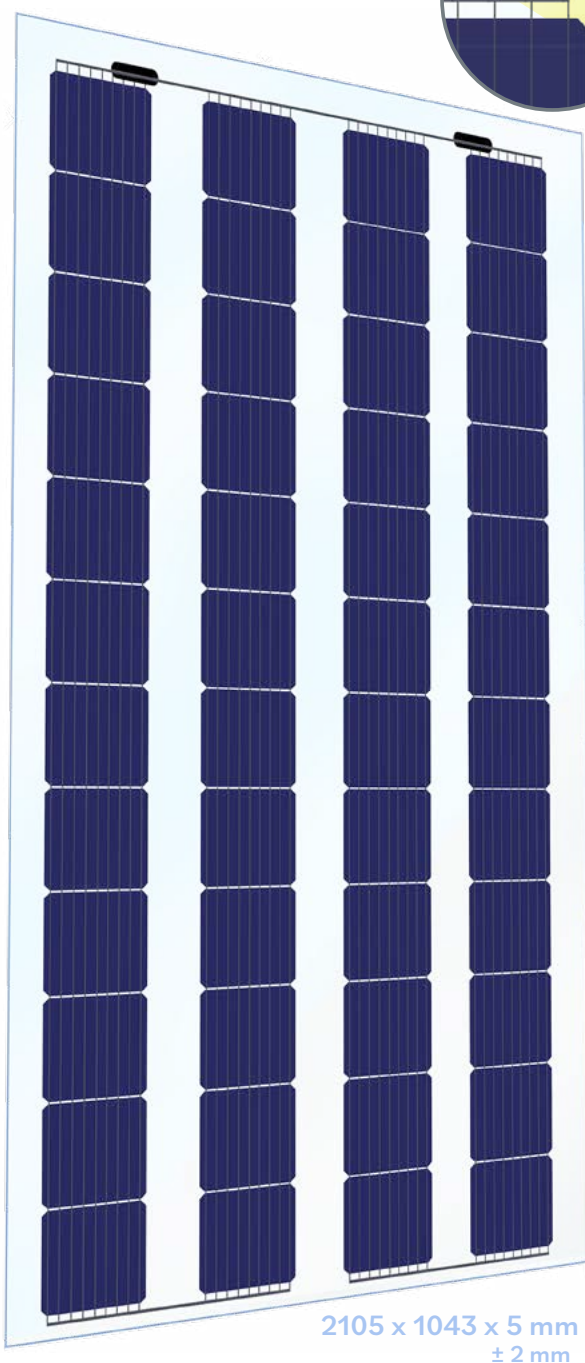
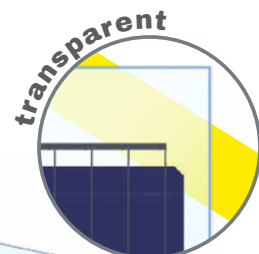
Mechanical Specification

Solar Cell	Bifacial, 9BB
No. of Cells	48 (4 x 12)
Dimensions Size 2	2105 x 1043 x 5 mm (without J-box)
Weight Size 2	26 kg
Front/Back Glass	2 mm heat strengthened glass
Junction Box	IP68 rated (two bypass diodes)
Output Cables	4.0 mm ² , symmetrical lengths (230 mm)
Connectors	MC4 compatible
Fire Safety Class	Class C

Packing Configuration

40' HC Container

Pieces per pallet	33
Pallets per container	22
Pieces per container	726



Certificates



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AG-B120 - 370 Wp

High performance module with „halfcut“ cells

120 cells

CERTIFIED DOUBLE GLASS MODULES ACCORDING TO EN12600 FOR OVERHEAD MOUNTING

Electrical Specification (STC)

Maximum Power at (P _{max})	370 Wp
Optimum Operating Voltage (V _{mp})	34.4 V
Optimum Operating Current (I _{mp})	10.77 A
Open Circuit Voltage (V _{oc})	41.0 V
Short Circuit Current (I _{sc})	11.37 A
Module Efficiency	19.9 %
Maximum System Voltage	1500 V DC (IEC)
Operating Module Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W

Temperature Specification

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of P _{max}	-0.36 %/°C
Temperature Coefficient of V _{oc}	-0.29 %/°C
Temperature Coefficient of I _{sc}	0.04 %/°C

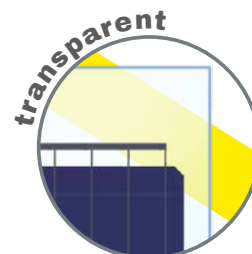
Mechanical Specification

Solar Cell	M6: 166 x 83 mm monocrystalline halfcut, 9BB
No. of Cells	120 (6 x 20)
Dimensions Size 1	1771 x 1049 x 35 mm (with frame)
Weight Size 1	24.5 kg
Front/Back Cover	3.2 mm heat strengthened ultra-white glass
Junction Box	IP68 rated (three bypass diodes)
Output Cables	4.0 mm ² , symmetrical lengths (1000 mm)
Connectors	MC4 compatible
Fire Safety Class	Class C

Packing Configuration

40' HC Container

Pieces per pallet / Container	32 / 832
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1771 x 1049 x 35 mm
± 2 mm

Certificates



CERTIFIED TO
IEC61215 / IEC61730



AG-M120 - 375 Wp

High performance module with „halfcut“ cells

120 cells

M6

Electrical Specification (STC)

Maximum Power at (Pmax)	375 Wp
Optimum Operating Voltage (Vmp)	34.7 V
Optimum Operating Current (Imp)	10.81 A
Open Circuit Voltage (Voc)	41.3 V
Short Circuit Current (Isc)	11.41 A
Module Efficiency	20.2 %
Maximum System Voltage	1500 V DC (IEC)
Operating Module Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W

Temperature Specification

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.36 %/°C
Temperature Coefficient of Voc	-0.29 %/°C
Temperature Coefficient of Isc	0.04 %/°C

Mechanical Specification

Solar Cell	M6: 166 x 83 mm monocrystalline halfcut, 9BB
No. of Cells	120 (6 x 20)
Dimensions Size 1	1771 x 1049 x 35 mm (with frame)
Weight Size 1	20 kg
Front Cover	3.2 mm low-iron tempered glass
Junction Box	IP68 rated (three bypass diodes)
Output Cables	4.0 mm ² , symmetrical lengths (1000 mm)
Connectors	MC4 compatible
Fire Safety Class	Class C

Packing Configuration

40' HC Container

Pieces per pallet / Container	32 / 832
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1771 x 1049 x 35 mm
± 2 mm

Certificates



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AG-M120-B - 360 Wp

High performance module with „halfcut“ cells

120 cells

M6

BLACK EDITION

Electrical Specification (STC)

Maximum Power at (Pmax)	360 Wp
Optimum Operating Voltage (Vmp)	33.9 V
Optimum Operating Current (Imp)	10.63 A
Open Circuit Voltage (Voc)	40.5 V
Short Circuit Current (Isc)	11.21 A
Module Efficiency	19.4 %
Maximum System Voltage	1500 V DC (IEC)
Operating Module Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W

Temperature Specification

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.36 %/°C
Temperature Coefficient of Voc	-0.29 %/°C
Temperature Coefficient of Isc	0.04 %/°C

Mechanical Specification

Solar Cell	M6: 166 x 83 mm monocrystalline halfcut, 9BB
No. of Cells	120 (6 x 20)
Dimensions Size 1	1771 x 1049 x 35 mm (with frame)
Weight Size 1	20 kg
Front Cover	3.2 mm low-iron tempered glass
Junction Box	IP68
Output Cables	4.0 mm ² , symmetrical lengths (1000 mm)
Connectors	MC4 compatible
Fire Safety Class	Class C

Packing Configuration 40' HC Container

Pieces per pallet / Container	32 / 832
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1771 x 1049 x 35 mm
± 2 mm

Certificates



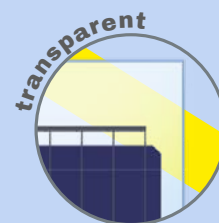
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AG-B144 - 450 Wp

High performance module with „halfcut“ cells

144 cells



CERTIFIED DOUBLE GLASS MODULES ACCORDING TO EN12600 FOR OVERHEAD MOUNTING

Electrical Specification (STC)

Maximum Power at (Pmax)	450 Wp
Optimum Operating Voltage (Vmp)	41.7 V
Optimum Operating Current (Imp)	10.80 A
Open Circuit Voltage (Voc)	49.7 V
Short Circuit Current (Isc)	11.39 A
Module Efficiency	20.3 %
Maximum System Voltage	1500 V DC (IEC)
Operating Module Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W

Temperature Specification

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.36 %/°C
Temperature Coefficient of Voc	-0.29 %/°C
Temperature Coefficient of Isc	0.04 %/°C

Mechanical Specification

Solar Cell	Bifacial halfcut, 9BB
No. of Cells	144 (6 × 24)
Dimensions Size 2	2111 × 1049 × 35 mm (with frame)
Weight Size 2	29 kg
Front/Back Cover	2 mm heat strengthened ultra-white glass
Junction Box	IP68 rated (three bypass diodes)
Output Cables	4.0 mm ² , symmetrical lengths (1130 mm)
Connectors	MC4 compatible
Fire Safety Class	Class C

Packing Configuration

40' HC Container

Pieces per pallet / Container	32 / 832
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2111 × 1049 × 35 mm
± 2 mm

Certificates



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AG-M144 - 450 Wp

High performance module with „halfcut“ cells

144 cells

Electrical Specification (STC)

Maximum Power at (P _{max})	450 Wp
Optimum Operating Voltage (V _{mp})	41.7 V
Optimum Operating Current (I _{mp})	10.79 A
Open Circuit Voltage (V _{oc})	49.7 V
Short Circuit Current (I _{sc})	11.38 A
Module Efficiency	20.3 %
Maximum System Voltage	1500 V DC (IEC)
Operating Module Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W

Temperature Specification

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of P _{max}	-0.36 %/°C
Temperature Coefficient of V _{oc}	-0.29 %/°C
Temperature Coefficient of I _{sc}	0.04 %/°C

Mechanical Specification

Solar Cell	M6: 166 x 83 mm monocrystalline halfcut, 9BB
No. of Cells	144 (6 x 24)
Dimensions Size 2	2111 x 1049 x 35 mm (with frame)
Weight Size 2	23.5 kg
Front Cover	3.2 mm low-iron tempered glass
Junction Box	IP68 rated (three bypass diodes)
Output Cables	4.0 mm ² , symmetrical lengths (1130 mm)
Connectors	MC4 compatible
Fire Safety Class	Class C

Packing Configuration

40' HC Container

Pieces per pallet / Container	32 / 832
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2111 x 1049 x 35 mm
± 2 mm

Certificates



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AG-M144-B - 440 Wp

144 cells

BLACK EDITION

High performance module with „halfcut“ cells

Electrical Specification (STC)

Maximum Power at (Pmax)	440 Wp
Optimum Operating Voltage (Vmp)	41.2 V
Optimum Operating Current (Imp)	10.69 A
Open Circuit Voltage (Voc)	49.0 V
Short Circuit Current (Isc)	11.30 A
Module Efficiency	19.9 %
Maximum System Voltage	1500 V DC (IEC)
Operating Module Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W

Temperature Specification

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.36 %/°C
Temperature Coefficient of Voc	-0.29 %/°C
Temperature Coefficient of Isc	0.04 %/°C

Mechanical Specification

Solar Cell	M6: 166 x 83 mm monocrystalline halfcut, 9BB
No. of Cells	144 (6 x 24)
Dimensions Size 2	2111 x 1049 x 35 mm (with frame)
Weight Size 2	23.5 kg
Front Cover	3.2 mm low-iron tempered glass
Junction Box	IP68 rated (three bypass diodes)
Output Cables	4.0 mm ² , symmetrical lengths (1130 mm)
Connectors	MC4 compatible
Fire Safety Class	Class C

Packing Configuration

40' HC Container

Pieces per pallet / Container	32 / 832
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2111 x 1049 x 35 mm
± 2 mm

Certificates



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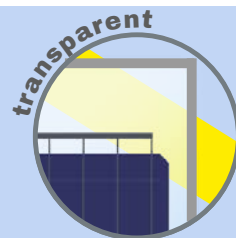


AG-B72 - 225 Wp

double glass module with „halfcut“ cells

120 cells

50%
transparency



CERTIFIED DOUBLE GLASS MODULES ACCORDING
TO EN12600 FOR OVERHEAD MOUNTING

Electrical Specification (STC)

Maximum Power at (P _{max})	225 Wp
Optimum Operating Voltage (V _{mp})	20.8 V
Optimum Operating Current (I _{mp})	10.82 A
Open Circuit Voltage (V _{oc})	24.9 V
Short Circuit Current (I _{sc})	11.32 A
Module Efficiency (front side only)	10.2 %
Maximum System Voltage	1500 V DC (IEC)
Operating Module Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W

Temperature Specification

Nominal Operating Cell Temperature (NOCT)	43±2°C
Temperature Coefficient of P _{max}	-0.36 %/°C
Temperature Coefficient of V _{oc}	-0.33 %/°C
Temperature Coefficient of I _{sc}	0.049 %/°C

Mechanical Specification

Solar Cell	Bifacial halfcut, 9BB
No. of Cells	72 (4 x 18)
Dimensions Size 1	1049 x 2111 x 35 mm (with frame)
Weight Size 1	29 kg
Front/Back Glass	2 mm heat strengthened glass
Junction Box	IP68 rated (three bypass diodes)
Output Cables	4.0 mm ² , symmetrical lengths (1130 mm)
Connectors	MC4 compatible
Fire Safety Class	Class C

Packing Configuration 40' HC Container

Pieces per pallet / Container	32 / 832
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Certificates

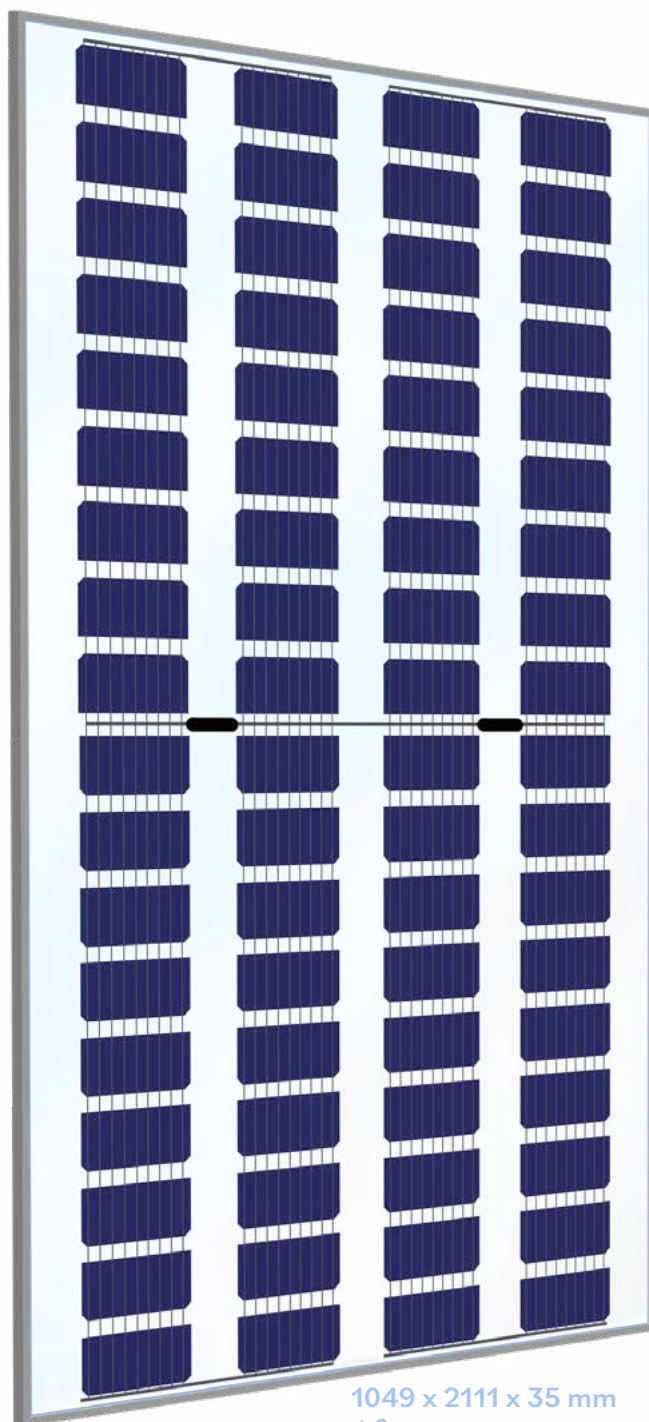


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Made in Europe / Slovakia

©AGORA Solar 07/2022



best
suitable for
AgriPV

AG-M108 - 410 Wp

High performance module with „halfcut“ cells

108 cells

M10

Electrical Specification (STC)

Maximum Power at (P _{max})	410 Wp
Optimum Operating Voltage (V _{mp})	31.4 V
Optimum Operating Current (I _{mp})	13.06 A
Open Circuit Voltage (V _{oc})	37.4 V
Short Circuit Current (I _{sc})	13.81 A
Module Efficiency	21 %
Maximum System Voltage	1500 V DC (IEC)
Operating Module Temperature	-40 °C to +85 °C
Maximum Series Fuse Rating	25 A
Power Tolerance	0/+5 W

Temperature Specification

Nominal Operating Cell Temperature (NOCT)	43±2°C
Temperature Coefficient of P _{max}	-0.36 %/°C
Temperature Coefficient of V _{oc}	-0.29 %/°C
Temperature Coefficient of I _{sc}	0.049 %/°C

Mechanical Specification

Solar Cell	M10: 182 x 91 mm monocrystalline halfcut
No. of Cells	108 (6 x 18)
Dimensions Size 1	1722 x 1134 x 30 mm (with frame)
Weight Size 1	21.8 kg
Front Cover	3.2 mm low-iron tempered glass
Junction Box	IP68 rated (three bypass diodes)
Output Cables	4.0 mm ² , symmetrical lengths (400 mm)
Connectors	MC4 compatible
Fire Safety Class	Class C



1722 x 1134 x 30 mm
± 2 mm

Packing Configuration

40' HC Container

Pieces per pallet / Container	32 / 832
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Certificates



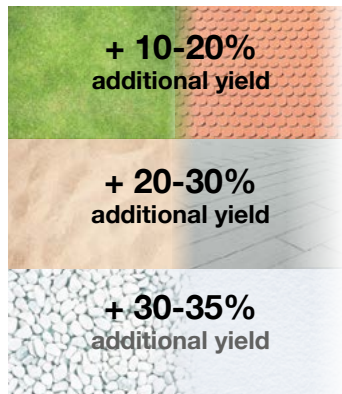
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OEM production in China

Bifacial Modules

For the glass module with bifacial cell technology, the light is caught both on the front and on the back of the module. The increased light input increases the efficiency of the module. The efficiency gain depends on the radiation situation (background and atmosphere).



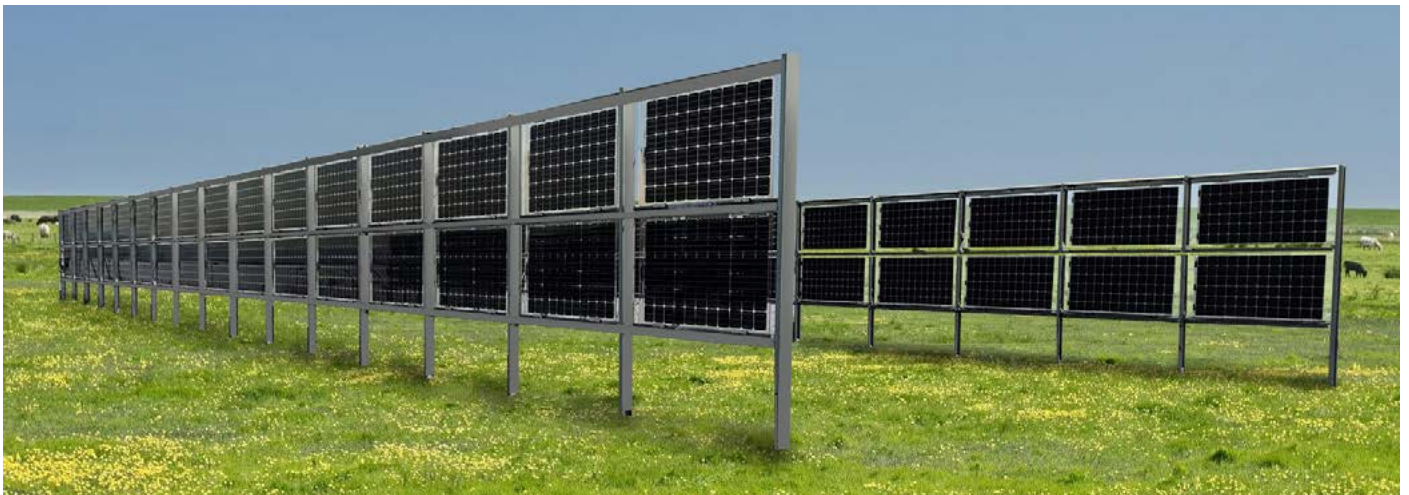
low / medium reflecting surfaces (e.g., tile roof, grass);
Mounting distance to substrate min. 40cm

good reflective surfaces (e.g. flat roof with gray film, sand);
Mounting distance to the ground 60cm -1.5m

very good reflective surfaces (e.g. glacier, snow);
Mounting distance to the ground larger than 1.5m



AgriPV





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