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PRODUCT MANUAL

BIPV PRODUCTS

ETERNAL ENERGY



INTEGRATED ENERGY SOLUTION FOR BUILDING PHOTOVOLTAICS

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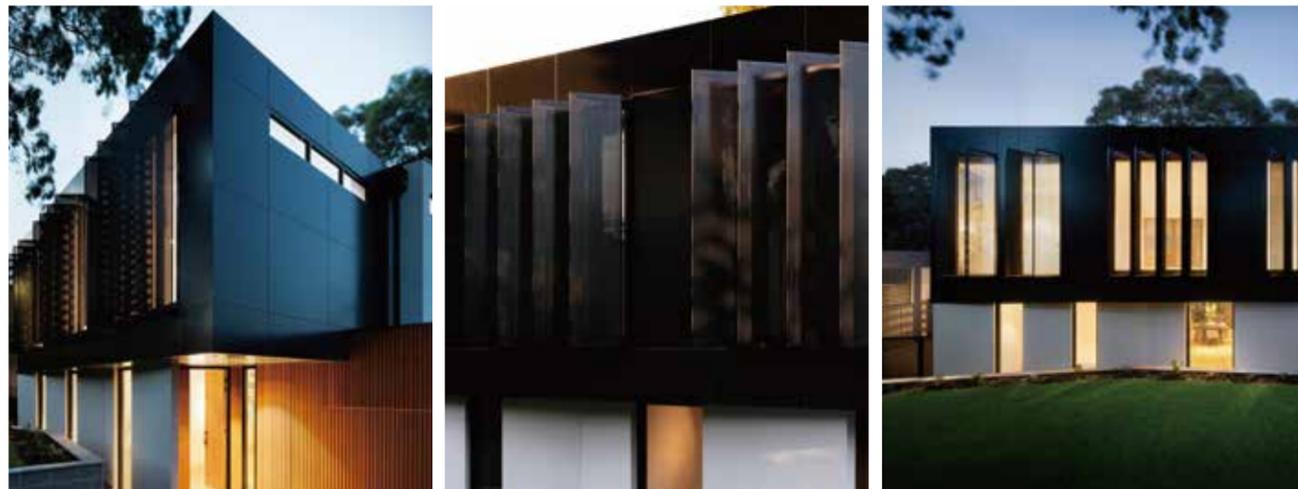
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BIPV CASES

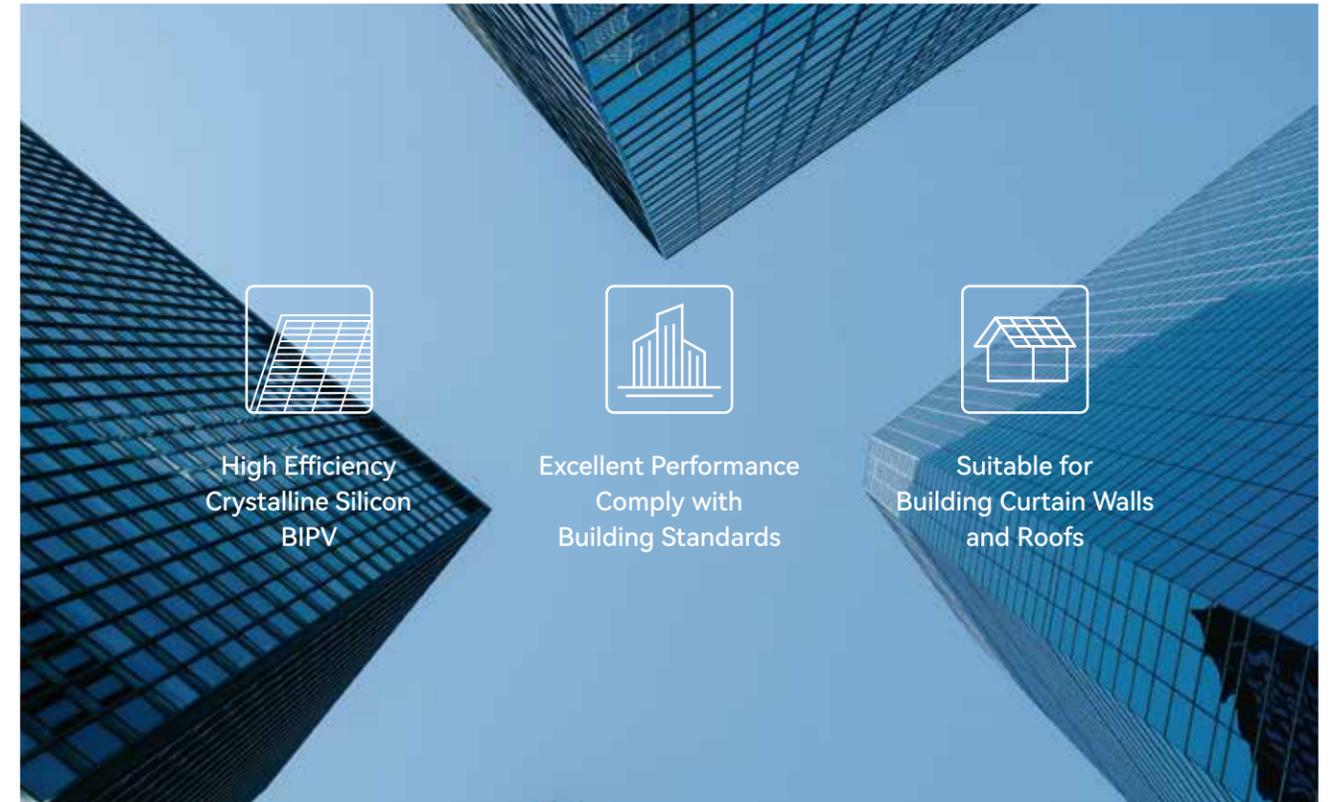
RAINBOW SERIES



CLOUD SERIES



STARLIGHT SERIES



PRODUCT FEATURES

- 
 - High reliability, comply with building standards**
Adapt to all kinds of harsh environment and inclement weather
Through strict environmental testing experiments, fire performance reached A class
- 
 - Green** No pollution, no radiation, no noise
 - Energy saving** High photoelectric conversion efficiency, reduce building energy consumption, and increase income
 - Sound insulation and thermal insulation** Noise insulations, solar radiation reduction
- 
 - Customized design** Customized design, suitable for different architectural styles
 - Aesthetic effect** More lasting high temperature process, no fading, no discoloration

RAINBOW SERIES

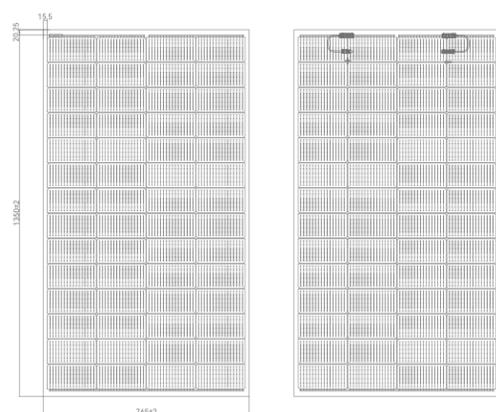
EM-N28MI



SPECIFICATION	Purple	Red	Blue	Dark gray	Light gray
Maximum Power (Pmax)	150	140	150	170	140
Open-circuit Voltage (Voc)	19.08	19.04	19.11	19.06	19.02
Short-circuit Current (Isc)	7.94	7.22	8.66	7.50	6.49
Maximum Power Voltage (Vmp)	16.72	16.68	16.74	16.70	16.66
Maximum Power Current (Imp)	7.52	6.84	8.20	7.11	6.15
Module Efficiency STC (%)	12.12%	11.02%	13.22%	11.46%	9.91%

STC : Irradiance : 1000W/m² Cell Temperature : 25°C AM=1.5

DIMENSION (mm)



OPERATING CONDITION

Maximum system voltage	1500Vdc
Maximum fuse rating	30A
Operating temperature(°C)	-40°C~+85°C

TEMPERATURE CHARACTERISTIC

Nominal operating temperature	45±2°C
Temperature coefficients of Pmax	-0.29%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.045%/°C

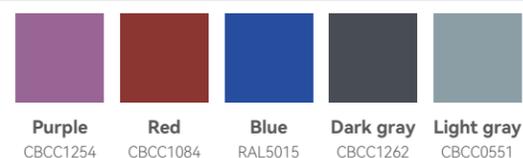
PRODUCT FEATURES

- Brilliant colors**
Suitable for more architectural styles
- Class A fire protection**
Comply with building standards
- High temperature process**
No fading, no discoloration
- N-type TOPCon cell**
Higher power generation efficiency

STRUCTURAL MATERIAL

Glass material/ Thickness	Tempered glass /5mm (Customizable)
Packaging material	PVB
Junction box protection level	IP68
Cable length/ Conductor cross-sectional area	(+)350mm;(-)250mm;Customizable/4mm ²
Connector type/protection level	MC4 compatible/IP68
Packing method	L-frame/Wooden box (Customizable)
Demensions	1350*765*11mm
Cell size	182*91mm
No. of cells	4*14
Weight	17.5kg

MORE COLORS (CUSTOMIZABLE)



MORE GLASS THICKNESS (CUSTOMIZABLE)

Glass thickness(mm):4/5/6/8/10

For more customizations of colors, sizes, shapes, various installation methods, please contact Eternal

RAINBOW SERIES

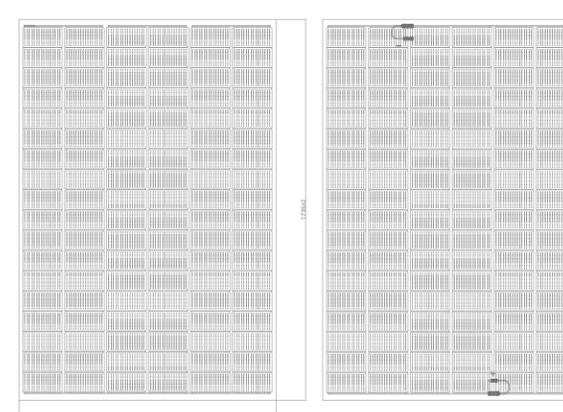
EM-N54MI



SPECIFICATION	Purple	Red	Blue	Dark gray	Light gray
Maximum Power (Pmax)	241	219	263	228	197
Open-circuit Voltage (Voc)	36.81	36.72	36.85	36.76	36.68
Short-circuit Current (Isc)	7.94	7.22	8.66	7.50	6.49
Maximum Power Voltage (Vmp)	32.25	32.17	32.28	32.21	32.14
Maximum Power Current (Imp)	7.52	6.84	8.20	7.11	6.15
Module Efficiency STC (%)	11.74%	10.67%	12.81%	11.10%	9.60%

STC : Irradiance : 1000W/m² Cell Temperature : 25°C AM=1.5

DIMENSION (mm)



OPERATING CONDITION

Maximum system voltage	1500Vdc
Maximum fuse rating	30A
Operating temperature(°C)	-40°C~+85°C

TEMPERATURE CHARACTERISTIC

Nominal operating temperature	45±2°C
Temperature coefficients of Pmax	-0.29%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.045%/°C

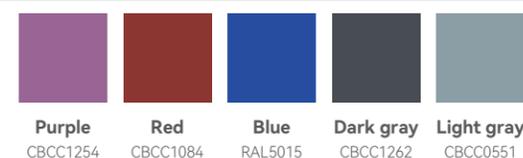
PRODUCT FEATURES

- Brilliant colors**
Suitable for more architectural styles
- Class A fire protection**
Comply with building standards
- High temperature process**
No fading, no discoloration
- N-type TOPCon cell**
Higher power generation efficiency

STRUCTURAL MATERIAL

Glass material/ Thickness	Tempered glass /5mm (Customizable)
Packaging material	PVB
Junction box protection level	IP68
Cable length/ Conductor cross-sectional area	(+)350mm;(-)250mm;Customizable/4mm ²
Connector type/protection level	MC4 compatible/IP68
Packing method	L-frame/Wooden box (Customizable)
Demensions	1735*1185*11mm
Cell size	182*91mm
No. of cells	6*18
Weight	28kg

MORE COLORS (CUSTOMIZABLE)



MORE GLASS THICKNESS (CUSTOMIZABLE)

Glass thickness(mm):4/5/6/8/10

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CLOUD SERIES

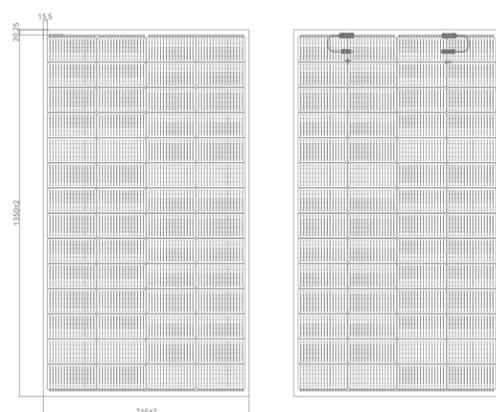
EM-N28MI



SPECIFICATION	Black Jade	Star	Nebula	Auspicious Cloud	Jade Rock
Maximum Power (Pmax)	120	130	125	135	130
Open-circuit Voltage (Voc)	18.18	18.14	18.20	18.16	18.12
Short-circuit Current (Isc)	6.35	5.48	5.19	5.77	6.06
Maximum Power Voltage (Vmp)	16.70	16.66	16.72	16.68	16.65
Maximum Power Current (Imp)	6.01	5.19	4.87	5.47	5.74
Module Efficiency STC (%)	9.69%	8.37%	7.93%	8.81%	9.25%

STC : Irradiance : 1000W/m² Cell Temperature : 25°C AM=1.5

DIMENSION (mm)



OPERATING CONDITION

Maximum system voltage	1500Vdc
Maximum fuse rating	30A
Operating temperature(°C)	-40°C~+85°C

TEMPERATURE CHARACTERISTIC

Nominal operating temperature	45±2°C
Temperature coefficients of Pmax	-0.29%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.045%/°C

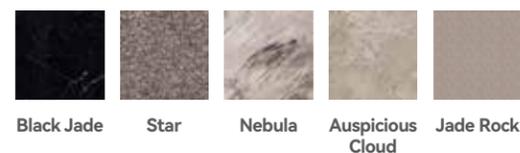
PRODUCT FEATURES

- Luxurious appearance**
Natural high-end architectural style
- Class A fire protection**
Comply with building standards
- High temperature process**
No fading, no discoloration
- N-type TOPCon cell**
Higher power generation efficiency

STRUCTURAL MATERIAL

Glass material/ Thickness	Tempered glass /5mm (Customizable)
Packaging material	PVB
Junction box protection level	IP68
Cable length/ Conductor cross-sectional area	(+)350mm;(-)250mm;Customizable/4mm ²
Connector type/protection level	MC4 compatible/IP68
Packing method	L-frame/Wooden box (Customizable)
Demensions	1350*765*11mm
Cell size	182*91mm
No. of cells	4*14
Weight	17.5kg

MORE PATTERNS (CUSTOMIZABLE)



MORE GLASS THICKNESS (CUSTOMIZABLE)

Glass thickness(mm):4/5/6/8/10

For more customization of patterns, sizes, shapes, various installation methods, please contact Eternal

CLOUD SERIES

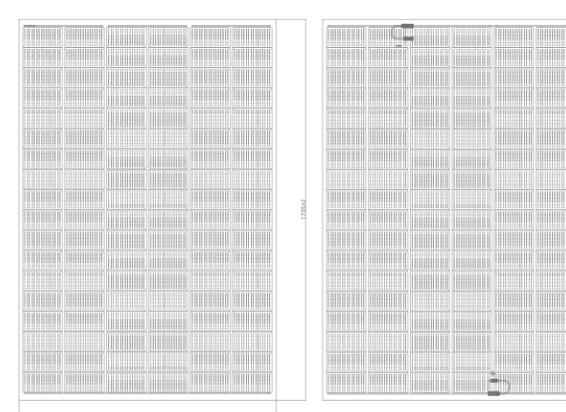
EM-N54MI



SPECIFICATION	Black Jade	Star	Nebula	Auspicious Cloud	Jade Rock
Maximum Power (Pmax)	193	167	158	176	184
Open-circuit Voltage (Voc)	35.05	34.98	35.09	35.01	34.94
Short-circuit Current (Isc)	6.35	5.48	5.19	5.77	6.06
Maximum Power Voltage (Vmp)	32.21	32.14	32.25	32.17	32.10
Maximum Power Current (Imp)	6.01	5.19	4.92	5.47	5.74
Module Efficiency STC (%)	9.39%	8.11%	7.68%	8.54%	8.96%

STC : Irradiance : 1000W/m² Cell Temperature : 25°C AM=1.5

DIMENSION (mm)



OPERATING CONDITION

Maximum system voltage	1500Vdc
Maximum fuse rating	30A
Operating temperature(°C)	-40°C~+85°C

TEMPERATURE CHARACTERISTIC

Nominal operating temperature	45±2°C
Temperature coefficients of Pmax	-0.29%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.045%/°C

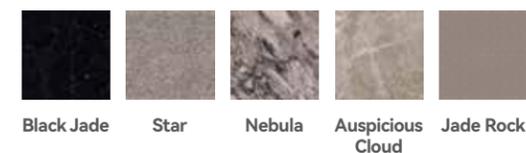
PRODUCT FEATURES

- Luxurious appearance**
Natural high-end architectural style
- Class A fire protection**
Comply with building standards
- High temperature process**
No fading, no discoloration
- N-type TOPCon cell**
Higher power generation efficiency

STRUCTURAL MATERIAL

Glass material/ Thickness	Tempered glass /5mm (Customizable)
Packaging material	PVB
Junction box protection level	IP68
Cable length/ Conductor cross-sectional area	(+)350mm;(-)250mm;Customizable/4mm ²
Connector type/protection level	MC4 compatible/IP68
Packing method	L-frame/Wooden box (Customizable)
Demensions	1735*1185*11mm
Cell size	182*91mm
No. of cells	6*18
Weight	28kg

MORE PATTERNS (CUSTOMIZABLE)



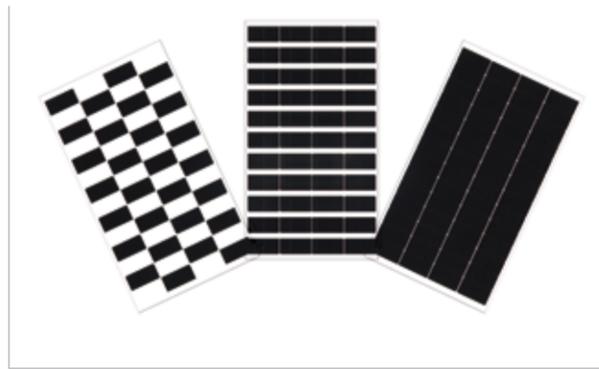
MORE GLASS THICKNESS (CUSTOMIZABLE)

Glass thickness(mm):4/5/6/8/10

For more customization of patterns, sizes, shapes, various installation methods, please contact Eternal

STARLIGHT SERIES

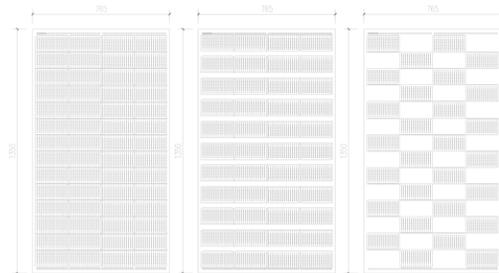
EM-N28MI



SPECIFICATION	Type1	Type2	Type3
Light transmittance	10%	30%	55%
No. of cells	4*14	4*11	4*7
Maximum Power (Pmax)	225	175	110
Open-circuit Voltage (Voc)	20.11	15.80	10.05
Short-circuit Current (Isc)	14.43	14.43	14.43
Maximum Power Voltage (Vmp)	16.64	13.34	8.76
Maximum Power Current (Imp)	13.67	13.40	12.99
Module Efficiency STC (%)	21.79%	16.95%	10.65%

STC: Irradiance: 1000W/m² Cell Temperature: 25°C AM=1.5

DIMENSION (mm)



OPERATING CONDITION	
Maximum system voltage	1500Vdc
Maximum fuse rating	30A
Operating temperature(°C)	-40°C~+85°C

TEMPERATURE CHARACTERISTIC	
Nominal operating temperature	45±2°C
Temperature coefficients of Pmax	-0.29%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.045%/°C

PRODUCT FEATURES

- Both light transmission and power generation**
Perfect integration with the architecture
- Class A fire protection**
Comply with building standards
- LoW-E glass used in combination**
Reduce indoor light radiation
- N-type TOPCon cell**
Higher power generation efficiency

STRUCTURAL MATERIAL	
Glass material/ Thickness	Tempered glass /5mm (Customizable)
Packaging material	PVB
Junction box protection level	IP68
Cable length/ Conductor cross-sectional area	(+)350mm;(-)250mm;Customizable/4mm ²
Connector type/protection level	MC4 compatible/IP68
Packing method	L-frame/Wooden box (Customizable)
Dimensions	1350*765*11mm
Cell size	182*91mm
No. of cells	4*14
Weight	17.5kg

MORE TRANSMITTANCE (CUSTOMIZABLE)



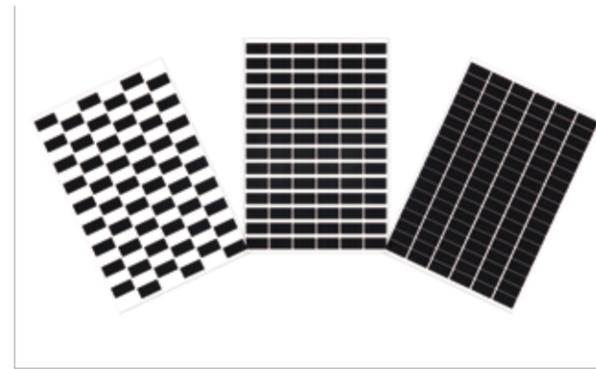
MORE GLASS THICKNESS (CUSTOMIZABLE)

Glass thickness(mm):4/6/8/10

For more customizations of sizes, shapes, various installation methods, please contact Eternal

STARLIGHT SERIES

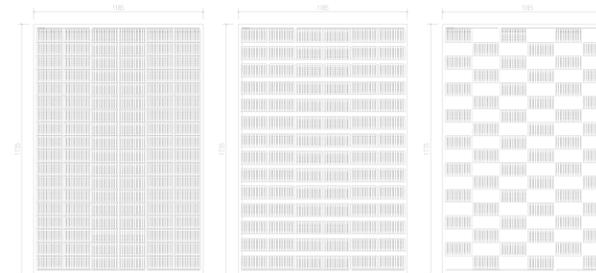
EM-N54MI



SPECIFICATION	Type1	Type2	Type3
Light transmittance	13%	32%	56%
No. of cells	6*18	6*14	6*9
Maximum Power (Pmax)	435	335	215
Open-circuit Voltage (Voc)	38.63	29.93	19.31
Short-circuit Current (Isc)	14.37	14.31	14.37
Maximum Power Voltage (Vmp)	31.95	26.50	16.82
Maximum Power Current (Imp)	13.62	13.56	12.94
Module Efficiency STC (%)	21.16%	16.29%	10.46%

STC: Irradiance: 1000W/m² Cell Temperature: 25°C AM=1.5

DIMENSION (mm)



OPERATING CONDITION	
Maximum system voltage	1500Vdc
Maximum fuse rating	30A
Operating temperature(°C)	-40°C~+85°C

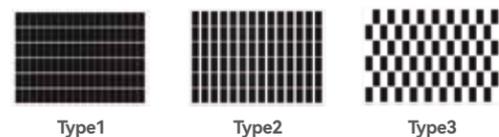
TEMPERATURE CHARACTERISTIC	
Nominal operating temperature	45±2°C
Temperature coefficients of Pmax	-0.29%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.045%/°C

PRODUCT FEATURES

- Both light transmission and power generation**
Perfect integration with the architecture
- Class A fire protection**
Comply with building standards
- LoW-E glass used in combination**
Reduce indoor light radiation
- N-type TOPCon cell**
Higher power generation efficiency

STRUCTURAL MATERIAL	
Glass material/ Thickness	Tempered glass /5mm (Customizable)
Packaging material	PVB
Junction box protection level	IP68
Cable length/ Conductor cross-sectional area	(+)350mm;(-)250mm;Customizable/4mm ²
Connector type/protection level	MC4 compatible/IP68
Packing method	L-frame/Wooden box (Customizable)
Dimensions	1735*1185*11mm
Cell size	182*91mm
No. of cells	6*18
Weight	28kg

MORE TRANSMITTANCE (CUSTOMIZABLE)



MORE GLASS THICKNESS (CUSTOMIZABLE)

Glass thickness(mm):4/6/8

For more customizations of sizes, shapes, various installation methods, please contact Eternal

CYAN WALL SERIES

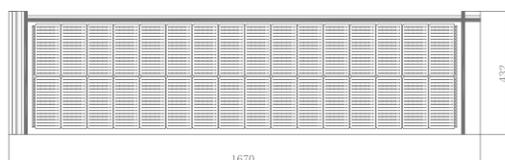
EM-N16MW



SPECIFICATION	EM-N16MW120	EM-N16MW125	EM-N16MW130
Maximum Power (Pmax)	120	125	130
Open-circuit Voltage (Voc)	11.04	11.31	11.49
Short-circuit Current (Isc)	13.96	14.19	14.43
Maximum Power Voltage (Vmp)	9.12	9.36	9.51
Maximum Power Current (Imp)	13.2	13.48	13.67
Module Efficiency STC (%)	16.63%	17.33%	18.02%

STC : Irradiance : 1000W/m² Cell Temperature : 25°C AM=1.5

DIMENSION (mm)



OPERATING CONDITION

Maximum system voltage	1500Vdc
Maximum fuse rating	30A
Operating temperature(°C)	-40°C~+85°C

TEMPERATURE CHARACTERISTIC

Nominal operating temperature	45±2°C
Temperature coefficients of Pmax	-0.29%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.045%/°C

PRODUCT FEATURES



Building materials

Comply with the standards of building materials



Light and compact

Suitable for various roof structures



Superior performance

Waterproof design



High efficiency photoelectric conversion

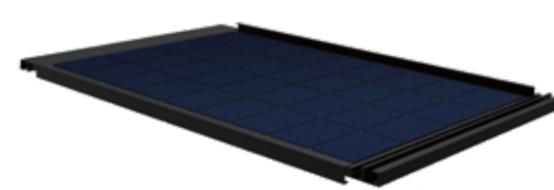
Bring more profit

STRUCTURAL MATERIAL

Glass material/ Thickness	Tempered glass 2mm
Packaging material	EPE
Junction box protection level	IP68
Cable length/ Conductor cross-sectional area	(+)350mm;(-)250mm;Customizable/4mm ²
Connector type/protection level	MC4 compatible/IP68
Packing method	Box packing
Dimensions	1670*432*24.5mm
Cell size	182*91mm
No. of cells	2*16

CYAN WALL SERIES

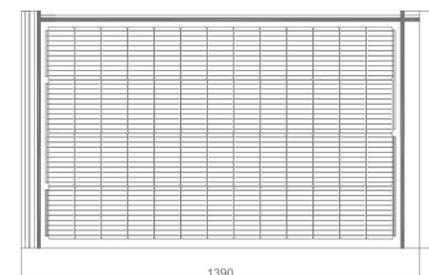
EM-N18MW



SPECIFICATION	EM-N18MW135	EM-N18MW140	EM-N18MW145
Maximum Power (Pmax)	135	140	145
Open-circuit Voltage (Voc)	24.84	25.35	25.75
Short-circuit Current (Isc)	6.98	7.065	7.185
Maximum Power Voltage (Vmp)	20.52	20.95	21.30
Maximum Power Current (Imp)	6.6	6.685	6.81
Module Efficiency STC (%)	16.16%	16.75%	17.35%

STC : Irradiance : 1000W/m² Cell Temperature : 25°C AM=1.5

DIMENSION (mm)



OPERATING CONDITION

Maximum system voltage	1500Vdc
Maximum fuse rating	30A
Operating temperature(°C)	-40°C~+85°C

TEMPERATURE CHARACTERISTIC

Nominal operating temperature	45±2°C
Temperature coefficients of Pmax	-0.29%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.045%/°C

PRODUCT FEATURES



Building materials

Comply with the standards of building materials



Light and compact

Suitable for various roof structures



Superior performance

Waterproof design



High efficiency photoelectric conversion

Bring more profit

STRUCTURAL MATERIAL

Glass material/ Thickness	Tempered glass 2mm
Packaging material	EPE
Junction box protection level	IP68
Cable length/ Conductor cross-sectional area	(+)350mm;(-)250mm;Customizable/4mm ²
Connector type/protection level	MC4 compatible/IP68
Packing method	Box packing
Dimensions	1019*820*24.5mm
Cell size	182*91mm
No. of cells	4*9

