



Model: AS-132/M12N-720W-BG

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POWER OUTPUT

720w TOPCon 132 Cell Bifacial N-Type Tech

High power up to 720W :

- Large area cells based on 210 mm silicon wafers and half-cut cell technology
- Up to 23.2% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

High customer value :

- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance Of System) cost, shorter payback time
- Designed for compatibility with existing mainstream system components
- Lower guaranteed first year and annual degradation
- Higher return on Investment

High reliability :

- Minimized micro-cracks with innovative non destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load

High energy yield :

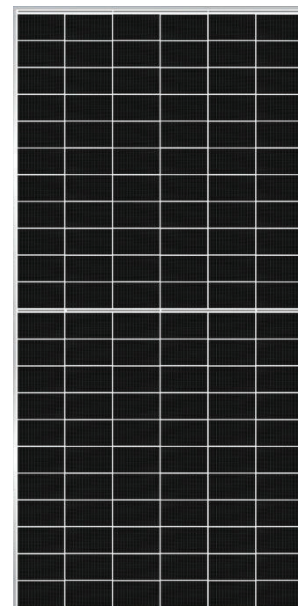
- Excellent IAM (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications
- The unique design provides optimized energy production under inter-row shading conditions

Max Module Efficiency:
23.2%

Weight:
38.8 Kgs

Dimensions:
2384x1303x35mm

Monocrystalline
132 cells



**30 YEAR
EUROPEAN
PERFORMANCE
WARRANTY**

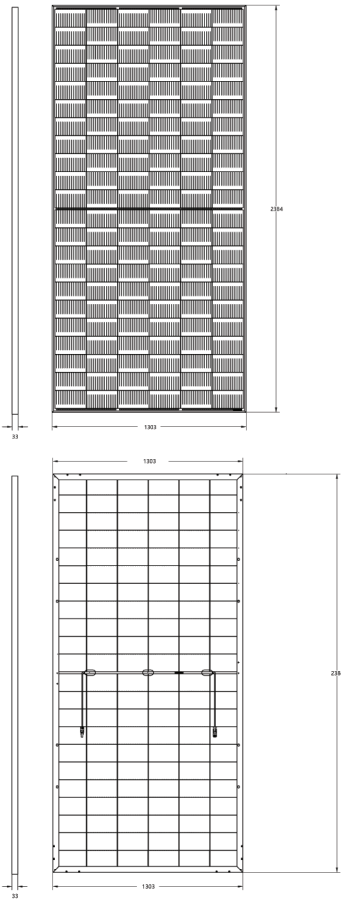


**12 YEAR
PRODUCT
WARRANTY**



* Specifications are subject to change without further notification

ENGINEERING DRAWING



ELECTRICAL CHARACTERISTICS

ELECTRICAL DATA (STC)

Peak Power Watts-P _{MAX} (Wp)*	695	700	705	710	715	720
Maximum Power Voltage-V _{MP} (V)	40.0	40.2	40.4	40.6	40.8	41.0
Maximum Power Current-I _{MP} (A)	17.38	17.42	17.46	17.49	17.53	17.56
Open Circuit Voltage-V _{OC} (V)	47.7	47.9	48.1	48.3	48.5	48.7
Short Circuit Current-I _{SC} (A)	18.44	18.50	18.55	18.61	18.66	18.72
Module Efficiency η _m (%)	22.4	22.5	22.7	22.9	23.0	23.2
Power Tolerance-P _{MAX} (W)						0~+5

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5; *Measuring tolerance: ±3%

ELECTRICAL DATA (BNPI)

Peak Power-P _{MAX} (Wp)*	740	745	750	755	760	765
Maximum Power Voltage-V _{MP} (V)	40.0	40.2	40.4	40.6	40.8	41.0
Maximum Power Current-I _{MP} (A)	18.50	18.53	18.56	18.60	18.63	18.66
Open Circuit Voltage-V _{OC} (V)	47.7	47.9	48.1	48.3	48.5	48.7
Short Circuit Current-I _{SC} (A)	19.64	19.69	19.74	19.79	19.84	19.88

BNPI: Irradiance 1000W/m², module temperature 25°C

ELECTRICAL DATA (NMOT)

Maximum Power-P _{MAX} (Wp)*	528	532	536	540	544	548
Maximum Power Voltage-V _{MP} (V)	37.4	37.6	37.8	38.0	38.2	38.4
Maximum Power Current-I _{MP} (A)	14.12	14.15	14.18	14.21	14.24	14.27
Open Circuit Voltage-V _{OC} (V)	45.0	45.2	45.4	45.6	45.8	46.0
Short Circuit Current-I _{SC} (A)	14.85	14.90	14.94	14.99	15.04	15.08

NMOT: Irradiance 800W/m², module temperature 20°C, AM=1.5, wind speed 1m/s

MECHANICAL CHARACTERISTICS

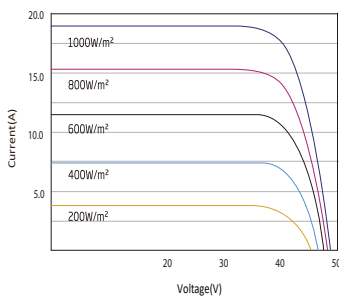
Solar Cells	N-Type TOPCon Monocrystalline Silicon
Cell Orientation	132pcs
Module Dimensions	2384x1303x35 mm
Weight	38.8 kg
Front Glass	2.0 mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Back Glass	2.0 mm, Heat Strengthened Glass (White Grid Glass)
Frame	30mm Anodized Aluminium Alloy
Junction Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0 mm ² Cable length 350 mm or customized length

*Please refer to regional datasheet for specied connector.

TEMPERATURE CHARACTERISTICS

NMOT (Nominal Module Operating Temperature)	42°C (±2°C)
Temperature Coefficient of P _{MAX}	-0.29%/°C
Temperature Coefficient of V _{OC}	-0.25%/°C
Temperature Coefficient of I _{SC}	+0.046%/°C

I-V CURVES OF PV MODULE(705 W)



MANAGEMENT SYSTEM



ISO 9001:
Quality management system



ISO 14001:
Standard for environmental management system



OHSAS 45001:
International standard for occupational health and safety assessment system