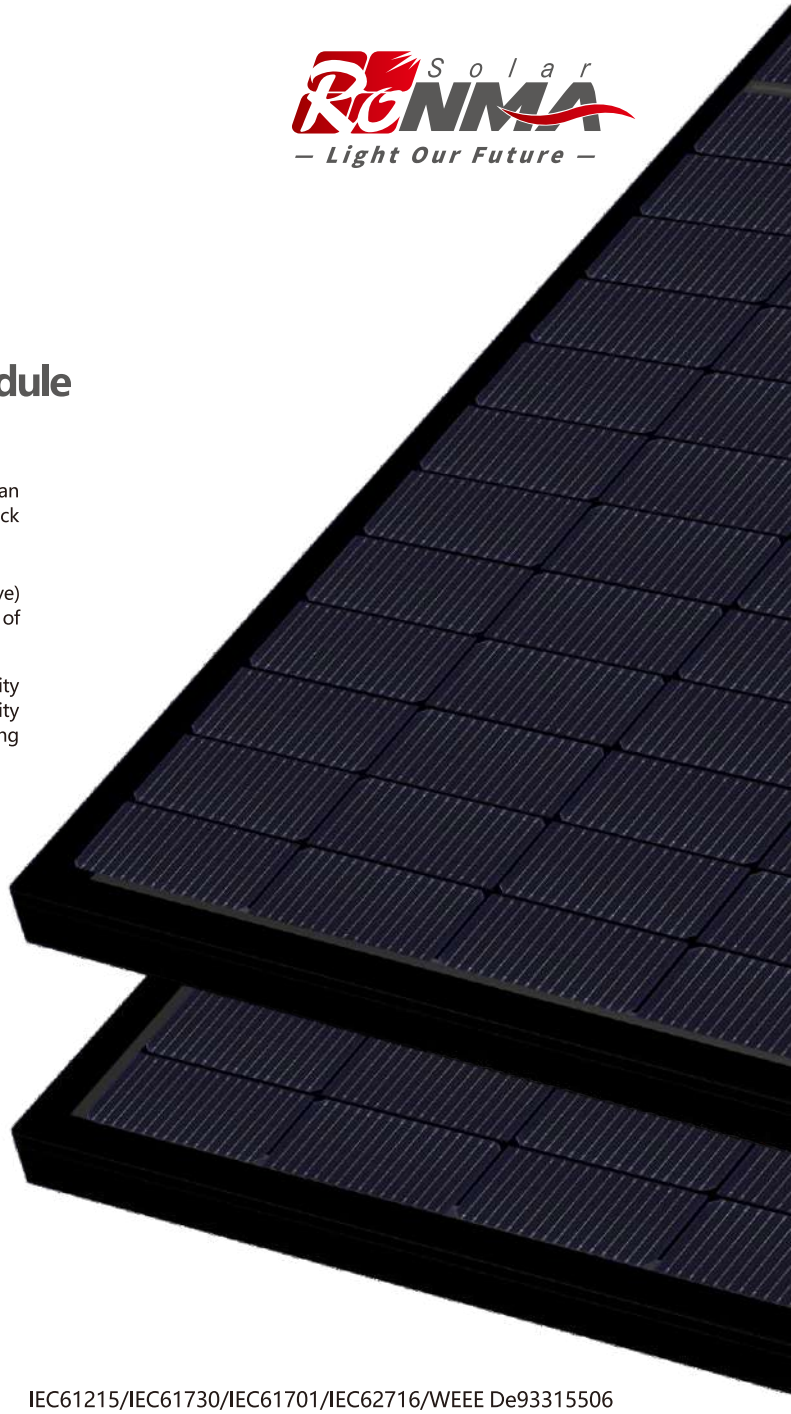
Solar RONMA
— Light Our Future —

series
SKYMAX
RM-420-445W-182M/108TB

N-TOPCon
Full Black Bifacial Monocrystalline Module



- Glass plated with double-layer antireflection film, this innovative technology can effectively improve light transmittance, it brings a more consistent all-black effect to the appearance of the module.
- No-Destructive Cutting: Ronma cells-cutting is using NDC (non-destructive) cutting technology, the cutting surface is smooth, which avoids the loss of the mechanical structure of the cells and ensures sufficient current.
- Junction Box Laser Welding Technology: Ronma uses the high energy density and precise positioning control capabilities of the laser to achieve high-quality welding. It can accurately control the junction box welding position and welding time to ensure welding quality and reliability, to improve module safety.

1722×1134×35/30
Dimensions (mm)

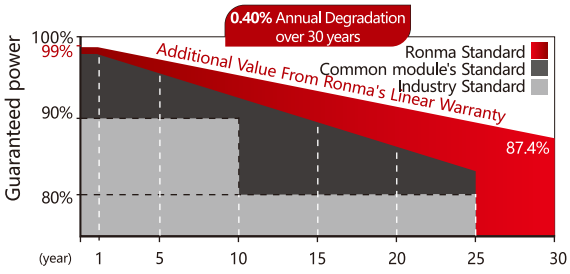
108 CELL
Mono TOPCon

420-445Wp
Power output

1500V DC
Max. system voltage

22.79%
Max. efficiency

LINEAR PERFORMANCE WARRANTY
15-year product warranty / 30-year linear power warranty



IEC61215/IEC61730/IEC61701/IEC62716/WEEE De93315506

Higher Power Output
Module power increases by 5-25% generally, bringing significantly lower LCOE and higher IRR. 0-5w positive tolerance output warranty.

Multi Busbar Technology
By improving optical utilization rate, power increases by 2~3% and efficiency increases by 0.4~0.6%.

PID Resistance
Excellent Anti-PID performance guarantee via optimized mass-production process and material control.

Low-light Performance
Excellent performance in low light.

Durability Against Extreme Environmental Conditions
High salt mist and ammonia resistance certified by TUV NORD.

EL Full Inspection
Dual-stage 100% EL Inspection.

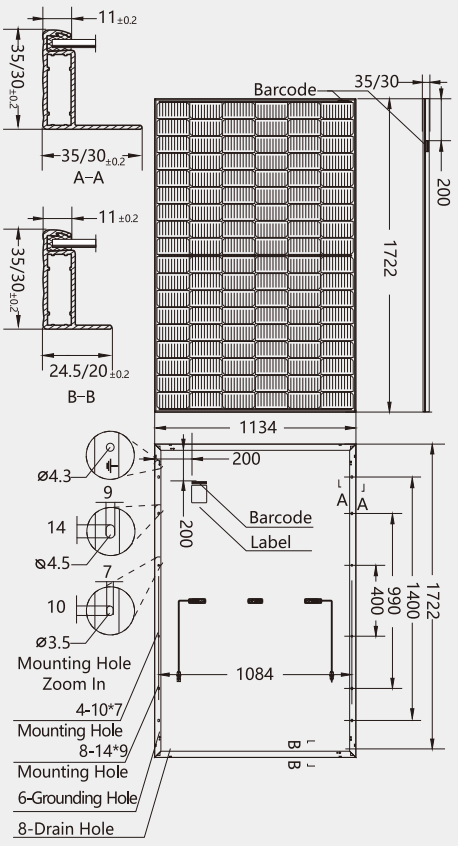
SKYMAX series

RM-420-445W-182M/108TB

N-TOPCon | Full Black Bifacial Monocrystalline Module

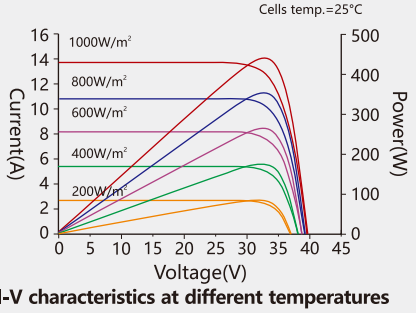
Dimensions of PV Module

Unit: mm

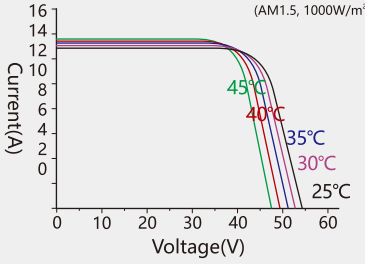


RM-445W-182M/108TB

I-V characteristics at different irradiations



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Rated Power in Watts-Pmax(Wp)	420	425	430	435	440	445
Open Circuit Voltage-Voc(V)	39.74	39.96	40.19	40.41	40.64	40.87
Short Circuit Current-Isc(A)	13.35	13.42	13.50	13.58	13.65	13.73
Max. Power Voltage-Vmpp(V)	32.76	32.94	33.13	33.31	33.50	33.69
Max. Power Current-Impp(A)	12.85	12.92	12.99	13.07	13.14	13.21
Module Efficiency(%)	21.50	21.76	22.02	22.28	22.53	22.79
Maximum system voltage	1500V DC					
Fuse Rating(A)	25					
Temperature coefficient Pmax	-0.30%/℃					
Temperature coefficient Isc	0.046%/℃					
Temperature coefficient Voc	-0.25%/℃					

*STC: Irradiance 1000W/m², module temperature 25℃, AM=1.5

WORKING CHARACTERISTICS (NOCT*)

Model Number	RM-410W-182M/108T	RM-415W-182M/108T	RM-420W-182M/108T	RM-425W-182M/108T	RM-430W-182M/108T
Rated Power in Watts-Pmax(Wp)	309	312	316	320	323
Open Circuit Voltage-Voc(V)	36.40	36.60	36.80	37.00	37.20
Short Circuit Current-Isc(A)	10.79	10.85	10.91	10.96	11.02
Max. Power Voltage-Vmpp(V)	29.58	29.73	29.95	30.19	30.30
Max. Power Current-Impp(A)	10.44	10.49	10.55	10.60	10.66
Power tolerance	0~+3%				
NOCT	45℃±2℃				
Operating Temperature	-40℃~85℃				

*NOCT: Irradiance 800W/m², ambient temperature 20℃, wind speed 1m/s

Electrical characteristics with different rear side power gain

	Pmax/W	Voc/V	Isc/A	Vmpp/V	Impp/A
5%	472	41.09	14.49	33.88	13.95
10%	495	41.09	15.18	33.88	14.62

The additional gain from the rear side compared to the power of the front side at the standard test condition.
It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

MECHANICAL CHARACTERISTICS

Number of cells	108pcs
Type of cell	N-TOPCon Mono
Thickness of glass(mm)	2.0
Junction box	IP68, 1500V DC, 3 Diodes
Type of frame	Anodized Aluminum Alloy
Size of module(mm)	1722×1134×35/30
Weight(kg)	25.5
Cables/connectors	4.0mm², MC4 compatible
Length of Cable	+300mm/-200mm (connector included) Length can be customized

PACKAGING CONFIGURATION

Height of Modules (mm)	35	30
Number of Modules Per Pallet	31	36
Packaging Box Dimensions (l×w×h) (mm)	1750×1120×1260	1750×1120×1260
Box Gross Weight (kg)	808	936
Number of Modules Per 40ft (HQ) Container	806	936
Number of Pallets Per 40ft (HQ) Container	26	26

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT

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RONMA Solar — Light Our Future —

Ronma Solar Group
Web: www.ronmasolar.com
E-mail: info@ronmasolar.com