

STG-430W-182M/108T

N-TOPCon Full Black Monocrystalline Module

1722×1134×35/30 182×91

Dimensions (mm)

Cell size (mm)

108CELL 410-430Wp

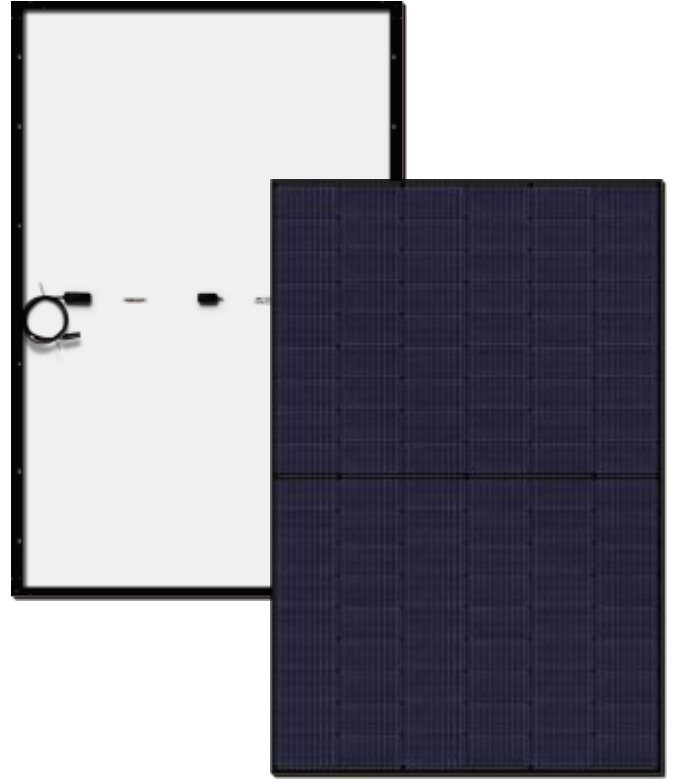
Mono TOPCon

Power output

1500V DC 22.02%

Max. system voltage

Max. efficiency



KEY FEATURES



ZERO LID

N-Type cell is characterized by "0" LID, which generates more power.



PID Resistance

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



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD. Lower temperature coefficients and operating temperature.



More Outstanding Low-light Performance

Higher power output even under low-light environments like on cloudy days.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



EL Full Inspection

Dual-stage 100% EL Inspection.



Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716

ISO 9001: Quality Management System

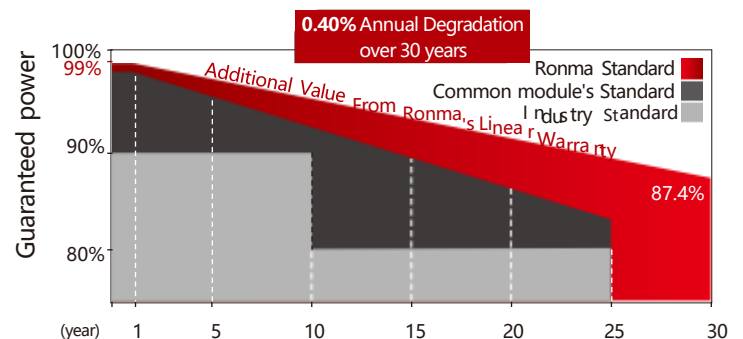
ISO 14001: Environmental Management System

ISO14064: Greenhouse Gases Emissions Verification

OHSAS 18001: Occupational Health and Safety Management System

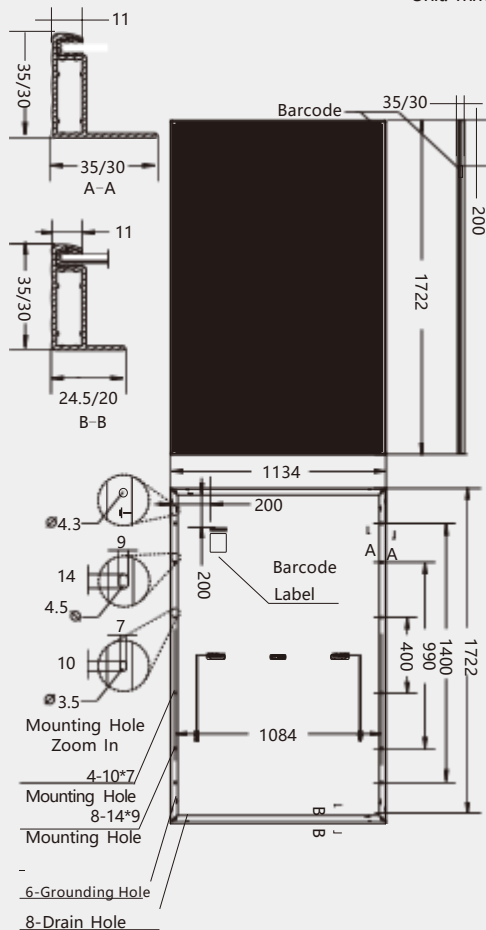
LINEAR PERFORMANCE WARRANTY

12-year product warranty / 30-year linear power warranty



Dimensions of PV Module

Unit: mm



ELECTRICAL CHARACTERISTICS (STC*)

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)	410	415	420	425	430
Open Circuit Voltage-Voc(V)	37.73	37.92	38.11	38.30	38.49
Short Circuit Current-Isc(A)	13.91	13.99	14.07	14.15	14.23
Max. Power Voltage-Vmpp(V)	31.13	31.32	31.51	31.70	31.88
Max. Power Current-Impp(A)	13.17	13.25	13.33	13.41	13.49
Module Efficiency(%)	21.00	21.25	21.51	21.76	22.02
Maximum system voltage	1500V DC				
Fuse Rating(A)					
Temperature coefficient Pmax	-0.30%/°C				
Temperature coefficient Isc					
Temperature coefficient Voc	-0.25%/°C				

*STC: Irradiance 1000W/m², module temperature 25°C, 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)	316	320	323	327	331
Open Circuit Voltage-Voc(V)	36.80	37.00	37.20	37.39	37.59
Short Circuit Current-Isc(A)	10.91	10.96	11.02	11.08	11.14
Max. Power Voltage-Vmpp(V)	29.95	30.19	30.30	30.50	30.73
Max. Power Current-Impp(A)	10.55	10.60	10.66	10.72	10.77
Power tolerance	0~+3%				
NOCT	45°C±2°C				
Operating Temperature	-40°C~85°C				

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

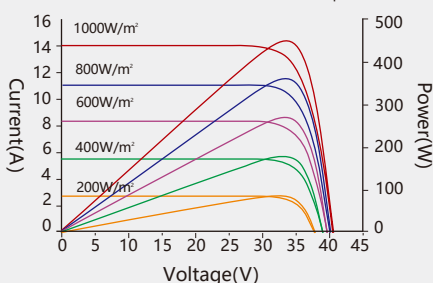
MECHANICAL CHARACTERISTICS

Number of cells	108pcs
Size of cell(mm)	182×91
Type of cell	N-TOPCon Mono
Thickness of glass(mm)	3.2
Junction box	IP68
Type of frame	Anodized Aluminum Alloy
Size of module(mm)	1722×1134×35/30
Weight(kg)	21.5
Cables/connectors	4.0mm ² , MC4 compatible
Length of Cabel	+300mm/-300mm (connector included)

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)	706	803
Number of Modules Per 40ft (HQ) Container	806	936
Number of Pallets Per 40ft (HQ) Container	26	26

RM-430W-182M/108T
I-V characteristics at different irradiancies
Cells temp.=25°C



I-V characteristics at different temperatures

