

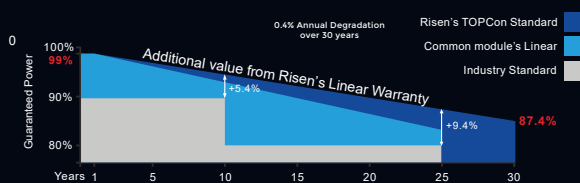
440NDG

n-Type TOPCon Series



LINEAR PERFORMANCE WARRANTY

25 year Product Warranty / 30 year Linear Power Warranty



Only Applicable To Residential Rooftops In Australia and New Zealand

Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

CERTIFICATIONS



0~+3%
Positive Power Tolerance

1500VDC
Maximum System Voltage

440Wp
Power Output Range

22.8%
Maximum Efficiency

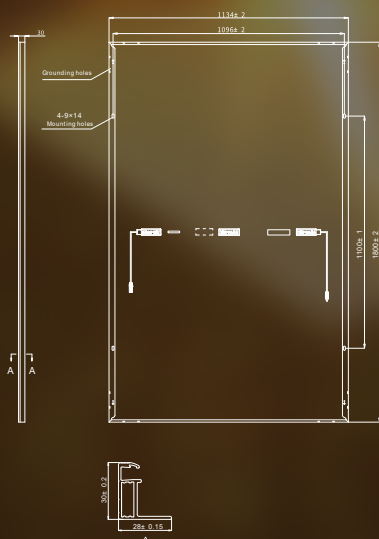


n-Type TOPCon Series

440NDG

Dimensions of PV Module

Unit: mm



ELECTRICAL DATA (STC)

Model Type	RSM108-10-440-465NDG					
Rated Power in Watts-Pmax(Wp)	440	445	450	455	460	465
Open Circuit Voltage-Voc(V)	38.61	38.83	39.05	39.26	39.47	39.68
Short Circuit Current-Isc(A)	14.55	14.61	14.66	14.72	14.79	14.86
Maximum Power Voltage-Vmpp(V)	32.08	32.26	32.44	32.64	32.84	33.04
Maximum Power Current-Imp(A)	13.74	13.82	13.88	13.94	14.01	14.08
Module Efficiency (%) ★	21.6	21.8	22.1	22.3	22.5	22.8

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

★ Module Efficiency (%): Rounding to the nearest number

ELECTRICAL DATA (NMOT)

Model Type	RSM108-10-440-465NDG					
Maximum Power-Pmax (Wp)	333.7	337.7	341.0	344.7	348.4	352.3
Open Circuit Voltage-Voc (V)	35.91	36.11	36.32	36.51	36.71	36.90
Short Circuit Current-Isc (A)	11.93	11.98	12.02	12.07	12.13	12.19
Maximum Power Voltage-Vmpp (V)	29.77	29.94	30.10	30.29	30.48	30.66
Maximum Power Current-Imp (A)	11.21	11.28	11.33	11.38	11.43	11.49

NMOT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Solar cells	n-type TOPCon
Cell configuration	108 cells (6×9+6×9)
Module dimensions	1800×1134×30mm
Weight	25kg
Superstrate	High Transmission, Low Iron, AR Coated Heat Strengthened Glass
Substrate	Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Black
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² , Positive(+)1200mm, Negative(-)1200mm (Connector Included) or customized length
Connector	Risen Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C
Temperature Coefficient of Pmax	-0.29%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

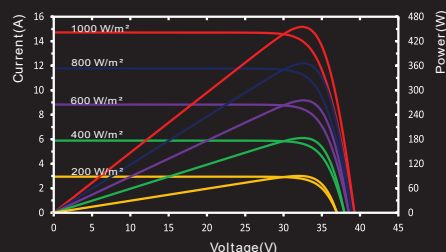
PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	864	216
Number of modules per pallet	36	36
Number of pallets per container	24	6
Packaging box dimensions (LxWxH) in mm	1820×1110×1260	
Box gross weight[kg]	950	

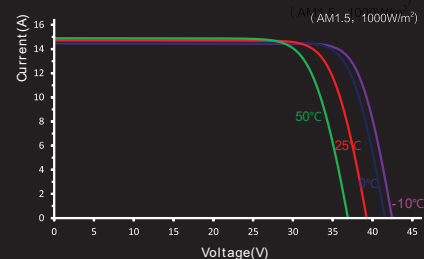
CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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RSM108-10-455NDG
I-V characteristics at different irradiances



I-V characteristics at different temperatures



Our Partners:

Module dimensions

1800×1134×30mm