n-type TOPCon

HIGH PERFORMANCE DUAL GLASS MODULE

RSM108-10-440-465NDG



The module picture is for reference only

440-465_{WD} 22.8 %

Power Output Range

Maximum Efficiency

0~+3%

Positive power tolerance

1500_{VDC}

Maximum System Voltage

KEY FEATURES



Perfect for residential scenario application



Excellent power generation



Excellent anti-LID & anti-PID performance



Excellent temperature coefficient (Pmax): -0.29%/°C



Excellent weak-light performance



Excellent warranty assurance

















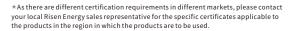






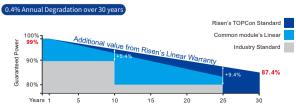




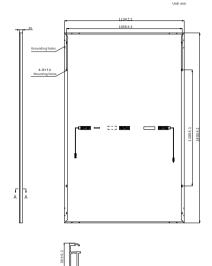


LINEAR PERFORMANCE WARRANTY

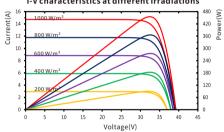
15 years Product Warranty / 30 years Linear Power Warranty



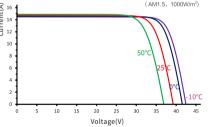
Dimensions of PV Module



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



I-V characteristics at different temperatures



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	

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-Impp(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 (%): Round-off 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-Impp (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, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky by pass diodes
Cables	4.0mm², 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

THE POWER OF RISING VALUE



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