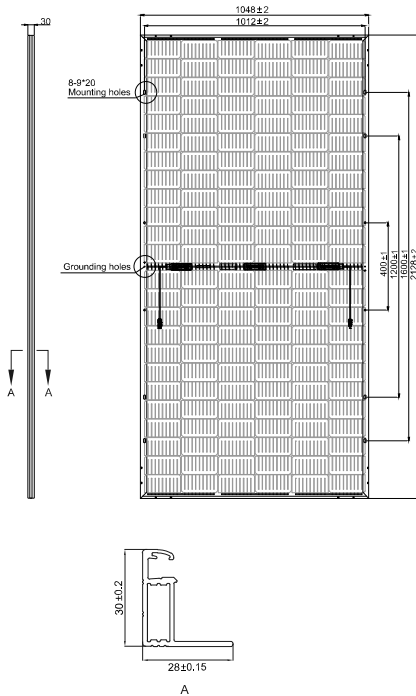


Dimensions of PV Module

Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM144-7-425BMDG	RSM144-7-430BMDG	RSM144-7-435BMDG	RSM144-7-440BMDG	RSM144-7-445BMDG
Rated Power in Watts-Pmax(Wp)	425	430	435	440	445
Open Circuit Voltage-Voc(V)	49.20	49.30	49.40	49.50	49.60
Short Circuit Current-Isc(A)	11.00	11.10	11.20	11.30	11.40
Maximum Power Voltage-Vmpp(V)	40.89	40.97	41.05	41.13	41.25
Maximum Power Current-Impp(A)	10.40	10.50	10.60	10.70	10.80
Module Efficiency (%) ★	19.1	19.3	19.5	19.7	20.0

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

Bifacial factor: 70%±5 ★ Module Efficiency (%): Round-off to the nearest number

Electrical characteristics with different rear side power gain (reference to 435Wp front)

Bifacial Gain ★	Pmax/W	Voc/V	Isc/A	Vmpp/V	Impp/A
5%	457	49.40	11.76	41.05	11.13
10%	479	49.40	12.32	41.05	11.66
15%	500	49.40	12.88	41.05	12.19
20%	522	49.40	13.44	41.05	12.72
25%	544	49.40	14.00	41.05	13.25
30%	566	49.40	14.56	41.05	13.78

★Bifacial Gain: 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.

ELECTRICAL DATA (NMOT)

Model Number	RSM144-7-425BMDG	RSM144-7-430BMDG	RSM144-7-435BMDG	RSM144-7-440BMDG	RSM144-7-445BMDG
Maximum Power-Pmax (Wp)	317.9	321.5	325.2	329.6	333.9
Open Circuit Voltage-Voc (V)	45.26	45.36	45.45	46.18	46.36
Short Circuit Current-Isc (A)	9.02	9.10	9.18	9.26	9.35
Maximum Power Voltage-Vmpp (V)	37.46	37.53	37.60	37.80	37.90
Maximum Power Current-Impp (A)	8.49	8.57	8.65	8.72	8.81

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

MECHANICAL DATA

Solar cells	Monocrystalline 166×83mm
Cell configuration	144 cells (6×12+6×12)
Module dimensions	2128×1048×30mm
Weight	29.0kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	Tempered Glass
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+) 270mm, Negative(-) 270mm
Connector	Risen Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.36%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	700	175
Number of modules per pallet	35	35
Number of pallets per container	20	5
Packaging box dimensions (LxWxH) in mm	2195×1130×1185	2195×1130×1185
Box gross weight[kg]	1080	1080

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

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