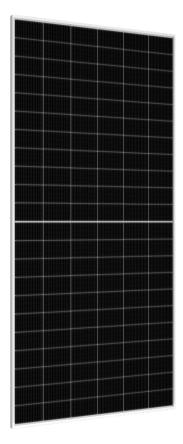
# *n*-type TOPCon HIGH PERFORMANCE BIFACIAL MODULE

# RSM132-11-605-630BNDG



The module picture is for reference only

605-630<sub>Wp</sub>

Power Output Range

**23.3**%

Maximum Efficiency

0~+3%

Positive power tolerance

1500<sub>VDC</sub>

Maximum System Voltage

# **KEY FEATURES**



Excellent power generation



Excellent anti-LID & anti-PID performance



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



Excellent weak-light performance



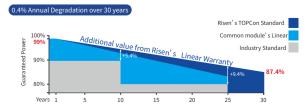
Excellent warranty assurance



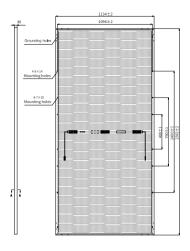
\* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

# LINEAR PERFORMANCE WARRANTY

15 years Product Warranty / 30 years Linear Power Warranty



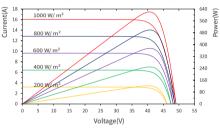
#### Dimensions of PV Module Unit mm



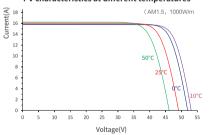


#### RSM132-11-620BNDG

### I-V characteristics at different irradiations



#### I-V characteristics at different temperatures



# **PACKAGING CONFIGURATION**

	40ft(HQ)	20ft	
Number of modules per container	720	144	
Number of modules per pallet	36	36	
Number of pallets per container	20	4	
Packaging box dimensions (LxWxH) in mm	2395×1110×1260		
Box gross weight[kg]	1238		

# **ELECTRICAL DATA (STC)**

Model Type			RSM132-11-60	)5-630BNDG		
Rated Power in Watts-Pmax(Wp)	605	610	615	620	625	630
Open Circuit Voltage-Voc(V)	48.49	48.69	48.89	49.08	49.27	49.46
Short Circuit Current-Isc(A)	15.86	15.92	15.98	16.04	16.10	16.16
Maximum Power Voltage-Vmpp(V)	40.28	40.46	40.64	40.81	40.98	41.17
Maximum Power Current-Impp(A)	15.02	15.08	15.14	15.20	15.26	15.31
Module Efficiency (%) ★	22.4	22.6	22.8	23.0	23.1	23.3

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

Bifacial factor: 80±10(%) ★ Module Efficiency (%): Rounding to the nearest number

#### Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	666	671	677	682	688	693
Open Circuit Voltage-Voc(V)	48.49	48.69	48.89	49.08	49.27	49.46
Short Circuit Current-Isc(A)	17.45	17.51	17.58	17.64	17.71	17.78
Maximum Power Voltage-Vmpp(V)	40.28	40.46	40.64	40.81	40.98	41.17
Maximum Power Current-Impp(A)	16.52	16.59	16.65	16.72	16.79	16.84

Rear side power 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 Type			RSM132-11-6	05-630BNDG		
Maximum Power-Pmax (Wp)	458.1	462.0	465.9	469.7	473.5	477.3
Open Circuit Voltage-Voc (V)	45.10	45.28	45.47	45.64	45.82	46.00
Short Circuit Current-Isc (A)	13.01	13.05	13.10	13.15	13.20	13.25
Maximum Power Voltage-Vmpp (V)	37.38	37.55	37.71	37.87	38.03	38.21
Maximum Power Current-Impp (A)	12.26	12.31	12.35	12.40	12.45	12.49

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

# **MECHANICAL DATA**

Solar cells $n$ -type TOPConCell configuration $132$ cells $(6 \times 11 + 6 \times 11)$ Module dimensions $2382 \times 1134 \times 30$ mm	
0	
Module dimensions 2382×1134×30mm	
Weight 32.5kg	
Superstrate High Transmission, 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(+)350mm, Negative(-)230mm (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	35A
Limiting Reverse Current	35A

THE POWER OF RISING VALUE



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E-mail: marketing@risenenergy.com Website: www.risenenergy.com CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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