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Abstract

This document describes the Risen Energy RSM110-8-540BMDG photovoltaic modules available for sale. The panels were originally purchased for a utility-scale project and were never installed; they are brand new and stored in their original packaging.

To note:

⇒ OEM warranty still in force.
⇒ material is available today. No production time lag.
⇒ the technology is up to date.
⇒ top quality of component.

Table of Contents

1. Introduction

This document describes the various characteristics of photovoltaic modules available for transfer and its current status. The subject of the opportunity is as follows:

Panels	
Manufacturer	Risen Energy Co. Ltd.
Model	RSM110-8-540BMDG
Number of unit	• 540W I2 n°: 4086 • 540W I3 n°: 3268
Technology	Bifacial Monocrystalline PERC (110 cells)
Rated Power (Pmax)	540 Wp
Module Efficiency	20.7%

General info	
Condition	New
Year of construction	2021
Country	Spain

The Original Equipment Manufacturer warranty is still in force. The material is already available.
This material was delivered in 2021, the technology is up to date.

2. Description of Supply

2.1 Panels Riesen RSM110-8-540BMDG

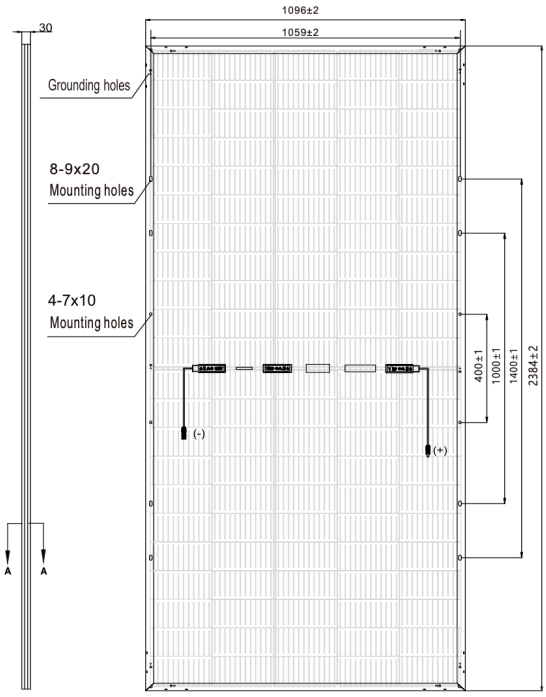

Figura 1: Panels Riesen RSM110-8-540BMDG

- Positive power tolerance of 0 ~ +3%
- Excellent PID resistance
- Module Imp binning reduces string mismatch losses
- Dual-stage 100% EL inspection ensuring defect-free products
- Excellent low irradiance performance
- Industry-leading 12-year product warranty
- Low temperature coefficient of power (-0.34% / °C)
- Bifacial technology enabling additional energy generation from the rear side (up to 30%)
- Global Tier 1 bankable manufacturer with certified automated production
- Certified according to IEC 61215 / IEC 61730 standards

2.2 Technical data

2.2.1 Panels

General Information

Manufacturer:	Risen Energy Co., Ltd.
Model:	RSM110-8-540BMDG
Technology:	Bifacial Monocrystalline PERC
Cell Configuration:	110 cells (5×11 + 5×11)
Bifacial Factor:	70 ± 10%

Electrical Data (STC)
(Irradiance 1000 W/m², Cell Temp. 25°C, AM1.5)

Rated Power (Pmax):	540 Wp
Module Efficiency	20.7%
Open Circuit Voltage (Voc):	37.88 V
Short Circuit Current (Isc):	18.13 A
Maximum Power Voltage (Vmpp):	31.56 V
Maximum Power Current (Impp):	17.12 A

Electrical Data (NMOT)
(Irradiance 800 W/m², Ambient Temp. 20°C, Wind 1 m/s)

Maximum Power (Pmax):	409.1 W
Open Circuit Voltage (Voc):	35.23 V
Short Circuit Current (Isc):	14.87 A
Maximum Power Voltage (Vmpp):	29.29 V
Maximum Power Current (Impp):	13.97 A

Electrical Characteristics with 10% Rear Side Gain

Total Equivalent Power (Pmax):	594 W
Voc:	37.88 V
Isc:	19.94 A
Vmpp:	31.56 V
Impp:	18.83 A

Temperature & Maximum Ratings

Operating Temperature: -	40°C to +85°C
Maximum System Voltage:	1500 VDC
Max Series Fuse Rating:	35 A
Limiting Reverse Current:	35 A
Nominal Module Operating Temperature (NMOT):	44°C ± 2°C
Temperature Coefficient of Voc:	-0.25% / °C
Temperature Coefficient of Isc:	+0.04% / °C
Temperature Coefficient of Pmax:	-0.34% / °C

Mechanical Data

Dimensions:	2384 × 1096 × 30 mm
Weight:	33 kg ± 0.5 kg
Front Glass:	High transmission, low iron, AR coated heat strengthened glass
Rear Glass:	Heat strengthened glass
Frame:	Anodized aluminum alloy (silver)
Junction Box:	IP68, 1500VDC, 3 Schottky bypass diodes
Cables:	4.0 mm², Positive (+) 350 mm / Negative (-) 230 mm
Connector:	Risen Twinsel PV-SY02, IP68

Mechanical Load Capacity

Wind Load:	2400 Pa
Snow Load:	5400 Pa

Packaging Configuration

Modules per Pallet:	35
Pallets per 40’ HQ Container:	20
Modules per 40’ HQ Container:	700
Packaging Box Dimensions (L × W × H):	2395 × 1105 × 1235 mm
Box Gross Weight:	1223 kg

3. Actual conditions

All material is stored outdoors. All material is still in their original packaging. The Original Equipment Manufacturer warranty is still in force. This material was delivered in 2021, the technology is up to date.

Figura 2: Storage status 2

4. Warranty

The warranty for the photovoltaic modules is associated with the project to which they are assigned. Therefore, at the time of signing the sale and purchase agreement with the buyer, it will be necessary to inform the manufacturer, Risen Energy, in parallel in order to ensure the maintenance and continuity of the originally agreed warranty conditions.

4.1 Scope of Supply

Position	Quantity	Description
1000		Photovoltaic solar power plant equipment
1001	7'354	**Panels** • *Riesen* • *RSM110-8-540BMDG*

Table 1: scope of supply.

4.2 Exclusions

Scope not explicitly listed in the Scope of Supply (Table 1) is excluded.
The following items are explicitly excluded:

Mechanical
Modification of any existing systems not explicitly cited.
Missing parts and components.
Electrical
Modification of existing systems not explicitly cited.
Cables, missing parts and components.
Civil
Land preparation
Temporary accesses and final accessing roads
Security plan and hardware.
Temporary accommodation
Finishing and fencing
First aid station and ambulances
Waste disposal facility

Table 2: exclusions from the Scope of Supply.

Project Management
Attainability of installation, commissioning and operation permits, or any other permit.
Assessment and acceptance of safety relevant issues.
Any study, engineering, documentation, or other service.
Additional works resulting from changes in laws or any other reasons, for which EECC is not responsible.
Building of Site Facilities of any kind (lights, water supply and treatment, heating, power supply, etc.).
Custom duties and taxes.
Engineering
Design and detailed engineering of existing equipment.

Table 3: exclusions from scope of Services.

4.3 Technical documentation

Following documents are part of the technical documentation (list is preliminary):

Pos.	Document	Available
1	**General**	
1.1	Document & drawing list	yes
1.2	Technical data sheet	yes
1.3	Component manuals	yes
1.4	Quality documentation	yes

Table 4: technical documentation.