COMUNE DI ORDONA

PROVINCIA DI FOGGIA

Provincia di Foggia

"PROGETTO PER LA REALIZZAZIONE DI UN IMPIANTO AGROVOLTAICO AVANZATO CON ANNESSO ALLEVAMENTO OVINO E RELATIVE OPERE ED INFRASTRUTTURE CONNESSE DELLA POTENZA COMPLESSIVA DI 57,348MWp - 50,000 MWac E RELATIVE OPERE DI CONNESSIONE "

PROGETTO	MEDITERRANEA
DITTA	ORDONA SOLAR S.R.L.

Comune: Ordona (FG)
Fogli: 7 - 8

ELABORATO: PD_21

SCALA: 1 : //

Titolo dell'allegato:

SPECIFICHE TECNICHE PANNELLI FOTOVOLTAICI

REV	DESCRIZIONE	DATA
0	EMISSIONE	09/05/2024

CARATTERISTICHE GENERALI D'IMPIANTO

AGROVOLTAICO
POTENZA: 50,000 MW

Il proponente:

ORDONA SOLAR S.R.L.
VIA L.CARIGLIA,22
P.IVA 04461640718
71121 Foggia FG

Società di progettazione:

LENSISTUDIO

DL COSTRUZIONI E SERVIZI SRL
Via Tratturo Castiglione, 26 - 71121 Foggia
P.IVA: 04381520719

Il Tecnico:

Collegio Provinciale Geometri e Geometri Laureati di Foggia
Iscrizione Albo N. 2323
Geometra Donato Lensi

Geom. Donato Lensi
Collegio dei geometri della Provincia di Foggia n. 2323

210 HETEROJUNCTION MODULE

ULTRA-HIGH POWER GENERATION
ULTRA-LOW CARBON EMISSION

Hyper-ion™

22.9%
Higher Efficiency

680-710Wp
Power Output Range

132 cells
HJT Bifacial Module

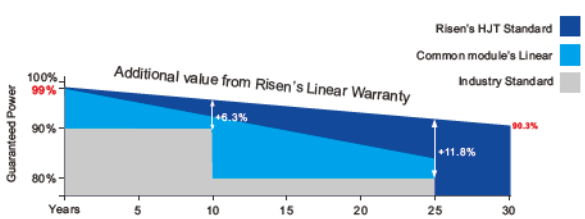
1500VDC
Maximum System Voltage

RSM132-8-680-710BHDG

KEY SALIENT FEATURES:

- Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing
- n-type solar cell without LID caused by B-O
- PID Resistance
- Most stable Power Temperature Coefficient
- Bifacial technology enables additional energy harvesting from rear side
- Higher power generation
- Module Imp binning radically reduces string mismatch losses
- Excellent wind load 2400Pa & snow load 5400Pa under certain installation method
- Comprehensive product and Management system certification
  - IEC61215:2016; IEC61730-1/-2:2016;
  - ISO 9001:2015 Quality Management System
  - ISO 14001:2015 Environmental Management System
  - ISO 45001:2018 Occupational Health and Safety Management System

LINEAR PERFORMANCE WARRANTY



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

15 Years — Product Warranty

30 Years — Linear Power Warranty

90.3 (%) — Power retention rate within 30 years

ISO9001
ISO14001
ISO45001
IEC62941

★ 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.

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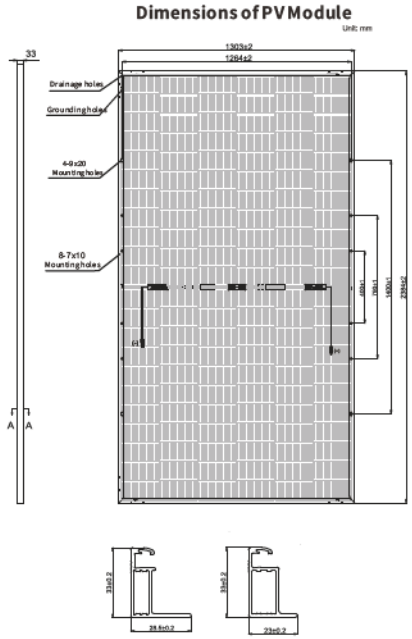
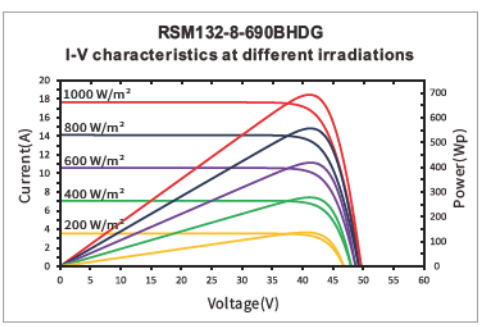
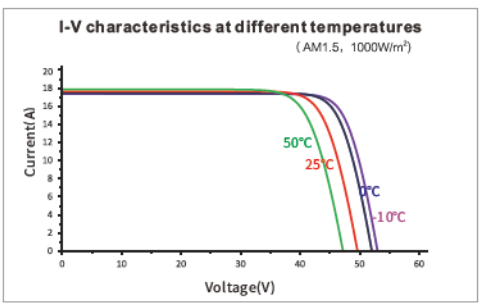
E-mail: marketing@risenenergy.com
Website: www.risenenergy.com

risen

Dimensions of PV Module







Our Partners:

ELECTRICAL DATA (STC)

Model Type	RSM132-8-680BHDG	RSM132-8-685BHDG	RSM132-8-690BHDG	RSM132-8-695BHDG	RSM132-8-700BHDG	RSM132-8-705BHDG	RSM132-8-710BHDG
Rated Power in Watts-Pmax(Wp)	**680**	**685**	**690**	**695**	**700**	**705**	**710**
Open Circuit Voltage-Voc(V)	49.47	49.56	49.65	49.74	49.83	49.92	50.01
Short Circuit Current-Isc(A)	17.48	17.56	17.66	17.74	17.82	17.91	18.00
Maximum Power Voltage-Vmpp(V)	41.48	41.56	41.63	41.71	41.78	41.86	41.93
Maximum Power Current-Impp(A)	16.41	16.50	16.60	16.68	16.77	16.86	16.95
Module Efficiency (%) ★	21.9	22.1	22.2	22.4	22.5	22.7	22.9

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
Bifacial factor:85±10(%) ★ Module Efficiency (%): Round-off to the nearest number

Electrical characteristics with 10% rear side power gain

Total Equivalent power -Pmax (Wp)	748	754	759	765	770	776	781
Open Circuit Voltage-Voc(V)	49.47	49.56	49.65	49.74	49.83	49.92	50.01
Short Circuit Current-Isc(A)	19.23	19.32	19.43	19.51	19.60	19.70	19.80
Maximum Power Voltage-Vmpp(V)	41.48	41.56	41.63	41.71	41.78	41.86	41.93
Maximum Power Current-Impp(A)	18.05	18.15	18.26	18.35	18.44	18.55	18.65

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	RSM132-8-680BHDG	RSM132-8-685BHDG	RSM132-8-690BHDG	RSM132-8-695BHDG	RSM132-8-700BHDG	RSM132-8-705BHDG	RSM132-8-710BHDG
Maximum Power-Pmax (Wp)	519.3	523.0	527.2	530.9	534.5	538.0	542.3
Open Circuit Voltage-Voc (V)	46.35	46.44	46.52	46.61	46.69	46.78	46.86
Short Circuit Current-Isc (A)	14.34	14.40	14.48	14.55	14.61	14.68	14.76
Maximum Power Voltage-Vmpp (V)	38.78	38.85	38.93	39.00	39.07	39.14	39.21
Maximum Power Current-Impp (A)	13.39	13.46	13.54	13.61	13.68	13.76	13.83

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

MECHANICAL DATA

Solar cells	HJT cell
Cell configuration	132 cells (6×11+6×11)
Module dimensions	2384×1303×33mm
Weight	37.5kg
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 bypass 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)	43°C±2°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	0.047%/°C
Temperature Coefficient of Pmax	-0.24%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	35A
Limiting Reverse Current	35A

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	594
Number of modules per pallet	33
Number of pallets per container	18
Packaging box dimensions (LxWxH) in mm	1320×1125×2520
Box gross weight[kg]	1289

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

THE POWER OF RISING VALUE