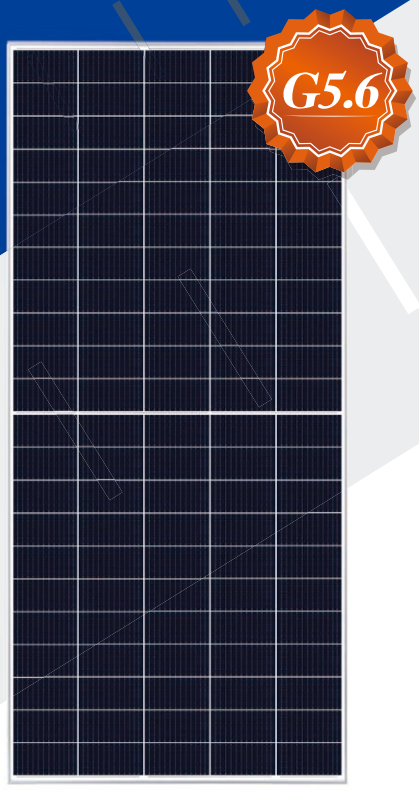
Draft

TITAN

HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE



RSM110-8-535M-555M

110 CELL
Mono PERC Module

535-555Wp
Power Output Range

1500VDC
Maximum System Voltage

21.2%
Maximum Efficiency

KEY SALIENT FEATURES

- Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing
- Industry leading lowest thermal co-efficient of power
- Industry leading 12 years product warranty
- Excellent low irradiance performance
- Excellent PID resistance
- Positive tight power tolerance
- Dual stage 100% EL Inspection warranting defect-free product
- Module Imp binning radically reduces string mismatch losses
- Warranted reliability and stringent quality assurances well beyond certified requirements
- Certified to withstand severe environmental conditions
  - Anti-reflective & anti-soiling surface minimise power loss from dirt and dust
  - Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
  - Excellent mechanical resistance: wind load 2400Pa & snow load 5400Pa

ISO9001
ISO14001
OHSAS18001
IEC TS 62941

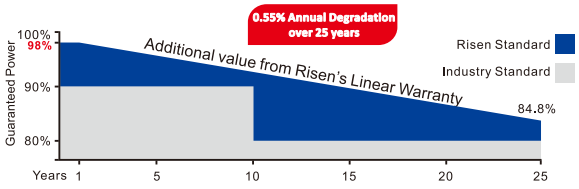
RISEN ENERGY CO., LTD.

Risen Energy is a leading, global tier 1 manufacturer of high-performance solar photovoltaic products and provider of total business solutions for residential, commercial and utility-scale power generation. The company, founded in 1986, and publicly listed in 2010, compels value generation for its chosen global customers. Techno-commercial innovation, underpinned by consummate quality and support, encircle Risen Energy's total Solar PV business solutions which are among the most powerful and cost-effective in the industry. With local market presence and strong financial bankability status, we are committed, and able, to building strategic, mutually beneficial collaborations with our partners, as together we capitalise on the rising value of green energy.

Tashan Industry Zone, Meilin, Ninghai 315609,Ningbo | PRC
Tel: +86-574-59953239 Fax: +86-574-59953599
E-mail: marketing@risenenergy.com Website: www.risenenergy.com

LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty



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

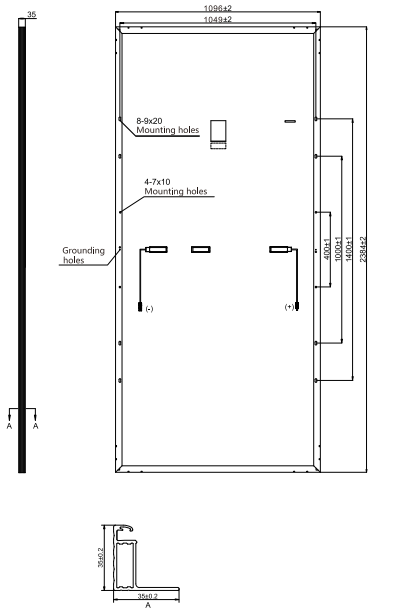
risen solar technology

Preliminary
For Global Market

THE POWER OF RISING VALUE

Dimensions of PV Module

Unit: mm



ELECTRICAL DATA (STC)

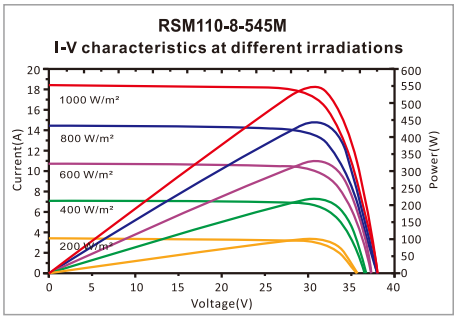
Model Number	RSM110-8-535M	RSM110-8-540M	RSM110-8-545M	RSM110-8-550M	RSM110-8-555M
Rated Power in Watts-Pmax(Wp)	**535**	**540**	**545**	**550**	**555**
Open Circuit Voltage-Voc(V)	37.58	37.78	38.02	38.24	38.46
Short Circuit Current-Isc(A)	18.13	18.18	18.23	18.28	18.33
Maximum Power Voltage-Vmpp(V)	31.26	31.46	31.66	31.86	32.06
Maximum Power Current-Impp(A)	17.12	17.17	17.22	17.27	17.32
Module Efficiency (%) ★	20.5	20.7	20.9	21.0	21.2

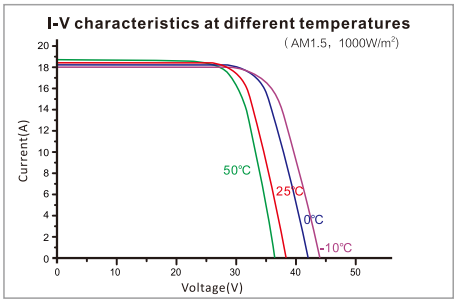
STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
★ Module Efficiency (%): Round-off to the nearest number

ELECTRICAL DATA (NMOT)

Model Number	RSM110-8-535M	RSM110-8-540M	RSM110-8-545M	RSM110-8-550M	RSM110-8-555M
Maximum Power-Pmax (Wp)	405.3	409.0	412.8	416.7	420.5
Open Circuit Voltage-Voc (V)	34.95	35.14	35.36	35.56	35.77
Short Circuit Current-Isc (A)	14.87	14.91	14.95	14.99	15.03
Maximum Power Voltage-Vmpp (V)	29.01	29.19	29.38	29.57	29.75
Maximum Power Current-Impp (A)	13.97	14.01	14.05	14.09	14.13

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





MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	110 cells (5×11+5×11)
Module dimensions	2384×1096×35mm
Weight	29kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm² (12AWG), Positive(+)350mm, Negative(-)350mm (Connector Included)
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	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

Our Partners:

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	620
Number of modules per pallet	31
Number of pallets per container	20
Box gross weight[kg]	950

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
©2020 Risen Energy. All rights reserved. Specifications included in this datasheet are subject to change without notice.

THE POWER OF RISING VALUE

REM110-M-12BB-EN-H2-3-2020