

# 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 load 2400Pa & snow load 5400Pa resistance

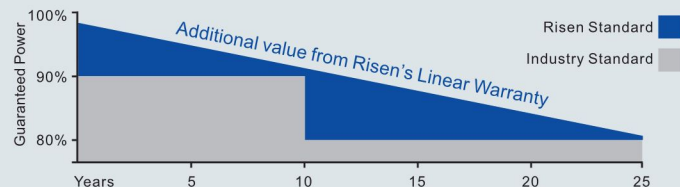


ISO9001  
ISO14001  
OHSAS18001  
IEC TS 62941



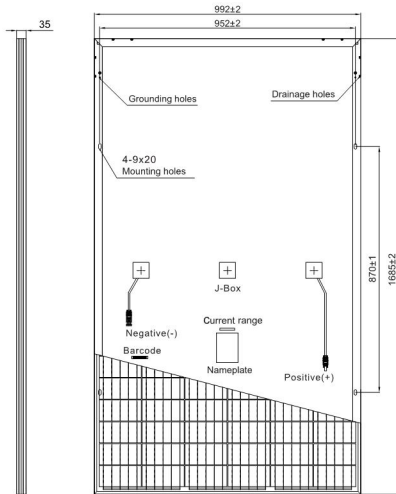
## LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty



## Dimensions of PV Module

Unit: mm



## ELECTRICAL DATA (STC)

Model Number	SWP120-275	SWP120-280	SWP120-285	SWP120-290	SWP120-295
Rated Power in Watts-Pmax(Wp)	275	280	285	290	295
Open Circuit Voltage-Voc(V)	38.25	38.42	38.58	38.75	38.92
Short Circuit Current-Isc(A)	9.20	9.30	9.40	9.50	9.60
Maximum Power Voltage-Vmpp(V)	32.00	32.20	32.40	32.60	32.80
Maximum Power Current-Impp(A)	8.60	8.70	8.80	8.90	9.00
Module Efficiency (%)	16.5	16.8	17.1	17.3	17.6

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

## ELECTRICAL DATA (NMOT)

Model Number	SWP120-275	SWP120-280	SWP120-285	SWP120-290	SWP120-295
Maximum Power-Pmax (Wp)	205.2	208.9	212.6	216.4	220.1
Open Circuit Voltage-Voc (V)	35.20	35.30	35.50	35.70	35.80
Short Circuit Current-Isc (A)	7.54	7.63	7.71	7.79	7.87
Maximum Power Voltage-Vmpp (V)	29.30	29.50	29.60	29.80	30.00
Maximum Power Current-Impp (A)	7.01	7.09	7.17	7.25	7.34

NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

## MECHANICAL DATA

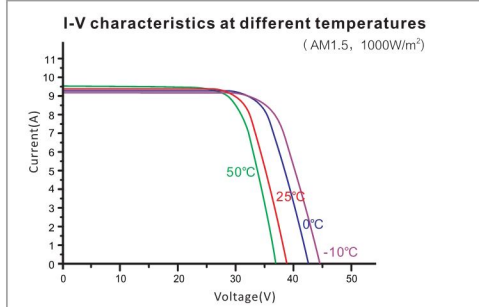
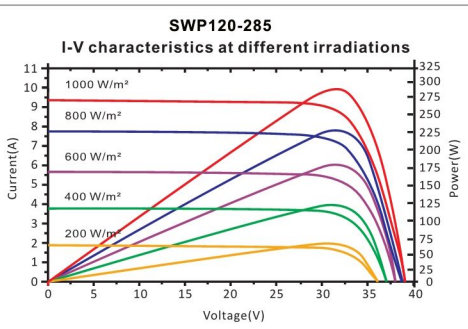
Solar cells	Polycrystalline 156.75×78.375mm, 5BB
Cell configuration	120 cells (6×10+6×10)
Module dimensions	1685×992×35mm
Weight	19kg
Superstrate	3.2 mm, High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP67, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm <sup>2</sup> (12AWG), Positive(+)270mm, Negative(-)100mm
Connector	Risen Twinsel PV-SY02, IP67

## TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	45°C±2°C
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of Isc	0.055%/°C
Temperature Coefficient of Pmax	-0.39%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

## PACKAGING CONFIGURATION

	40ft	20ft
Number of modules per container	780	360
Number of modules per pallet	30	30
Number of pallets per container	26	12
Packaging box dimensions (LxWxH) in mm	1715×1105×1130	1715×1105×1130
Box gross weight[kg]	615	615



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