RUNDA SOLAR

N-type TOPCon

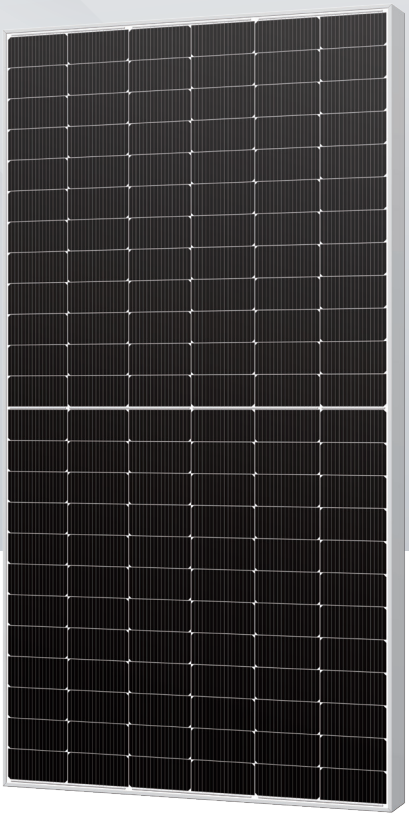
600~625W

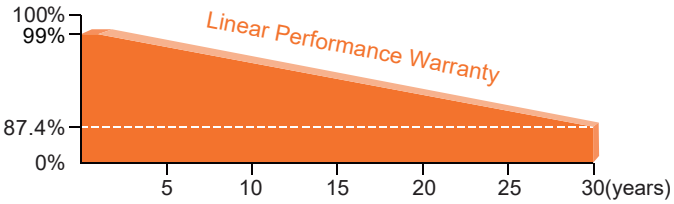
RS600~625S8-144GANT

Bifacial Dual Glass

Mono Module

Made in China





12 Years Product Warranty on Materials and Workmanship

30 Years Linear Performance Warranty

0.40% Subsequent Annual Degradation

IEC61215, IEC61730
ISO9001:2015: Quality Management System
ISO14001:2015: Environment Management System
ISO45001:2018: Occupational health and safety management systems

10%-30% Additional Power Generation

- 30 years lifespan brings 10%-30% additional power generation comparing with conventional P-type module

PID Resistance

- Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

Outstanding Low Light Performance

- Higher power output even under low-light environments like on cloudy or foggy days.

Mechanical Load

- Designed mechanical load and safety factor: Positive: 1600Pa,1.5/Negative: 1600Pa,1.5

Zero LID (Light Induced Degradation)

- N-type solar cell has no LID naturally which can increase power generation

Lower LCOE

- Higher bifaciality, higher power output and lower BOS cost

Better Temperature Coefficient

- Higher power generation under working conditions, thanks to passivating contact cell technology

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mainstay

Yancheng Runda PV Co.,Ltd.

RS600S8-144GANT RS605S8-144GANT RS610S8-144GANT

RS615S8-144GANT RS620S8-144GANT

Electrical Properties(STC*)

Max Power(W)	600	605	610	615	620
Max Power Tolerance	±3%	±3%	±3%	±3%	±3%
Module Efficiency(%)	22.21	22.40	22.58	22.77	22.95
Voltage Mpp-Vmpp(V)	43.80	43.94	44.08	44.21	44.35
Current Mpp-Impp(A)	13.70	13.77	13.84	13.91	13.98
Voltage Open Circuit-Voc(V)	53.01±3%	53.21±3%	53.41±3%	53.61±3%	53.81±3%
Short Circuit Current-Isc(A)	14.30±4%	14.37±4%	14.44±4%	14.51±4%	14.58±4%

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5

BNPI condition

Power Output(Wp)	654±3%	659±3%	665±3%	670±3%	676±3%
Voltage Open Circuit-Voc(V)	53.01±3%	53.21±3%	53.41±3%	53.61±3%	53.81±3%
Short Circuit Current-Isc(A)	15.59±4%	15.66±4%	15.74±4%	15.82±4%	15.89±4%

bifaciality coefficient

ϕPmax	81±3%	81±3%	81±3%	81±3%	81±3%
ϕVoc	99±3%	99±3%	99±3%	99±3%	99±3%
ϕIsc	80±4%	80±4%	80±4%	80±4%	80±4%

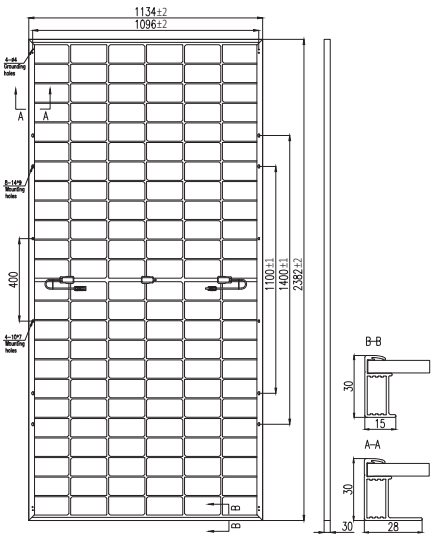
With Different Power Generation Gain (regarding 630W as an example)

Power Gain (%)	Power Output (Wp)	Voltage Mpp-Vmpp (V)	Current Mpp-Impp (A)	Voltage Open Circuit-Voc (V)	Short Circuit Current-Isc (A)
10	688	44.48	15.46	54.01	16.12
15	719	44.48	16.16	54.01	16.85
20	750	44.48	16.86	54.01	17.58
25	781	44.48	17.56	54.01	18.31
30	813	44.48	18.24	54.01	19.05

Packaging Configuration

Packing Type	40’ HQ
Piece/Pallet	36
Piece/Container	720

Engineering Drawing (mm)



Note: 400mm hole distance is only applicable when specified by the customer

Mechanical Properties

Number of Cells	144 [2 x (12 x 6)]
Module Dimension	2382*1134*30mm
Weight	37.5kg
Front Glass	1.6mm, Anti-Reflection Coating
Rear Glass	1.6mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Manufacturer	Suzhou XTONG Photovoltaic Technologies Co.,Ltd.
Connector	Type: PV-XT101.2
Junction Box	IP68 (3 diodes)
Cable Length	TUV 1x4.0mm², (+):300mm/ (-):200mm or Customized length

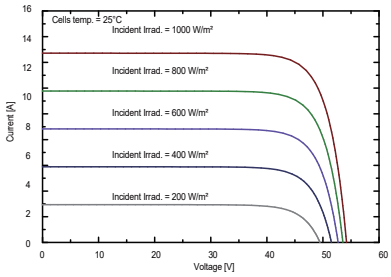
Operating Properties

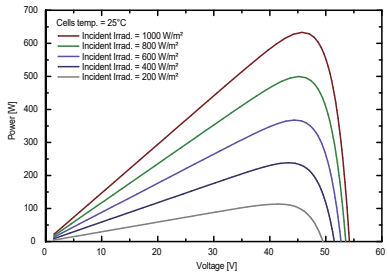
Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0~+5W
Fire Safety Class	Class C

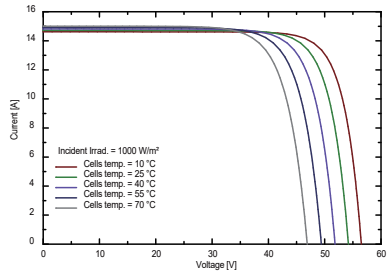
Temperature Coefficient

Temperature Coefficient of Pmax	-0.310%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.046%/°C
Nominal Operating Cell Temperature (NOCT)	42±2°C

Characteristic Curves(630W)







Specifications included in this datasheet are subject to change without notice.

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