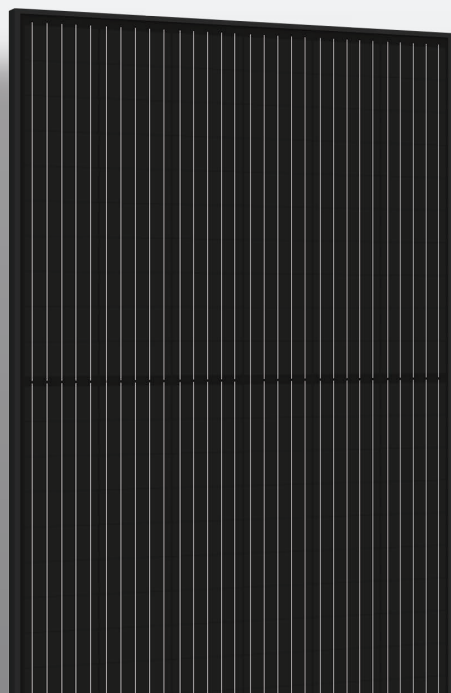


Ninja



SUNRISE 



Ninja Series

Large Dimension Half Cell Full Black Solar Module

SR-M660HL

305~320W

SR-M660305HL

SR-M660310HL

SR-M660315HL

SR-M660320HL

IEC61215/IEC61730

ISO9001:Quality Management System ISO14001:Environmental Management System

ISO45001:Occupational Health and Safety Management System



PID Resistance



Higher Power Output



Combined With The Roof
For A Better Visual
Appearance



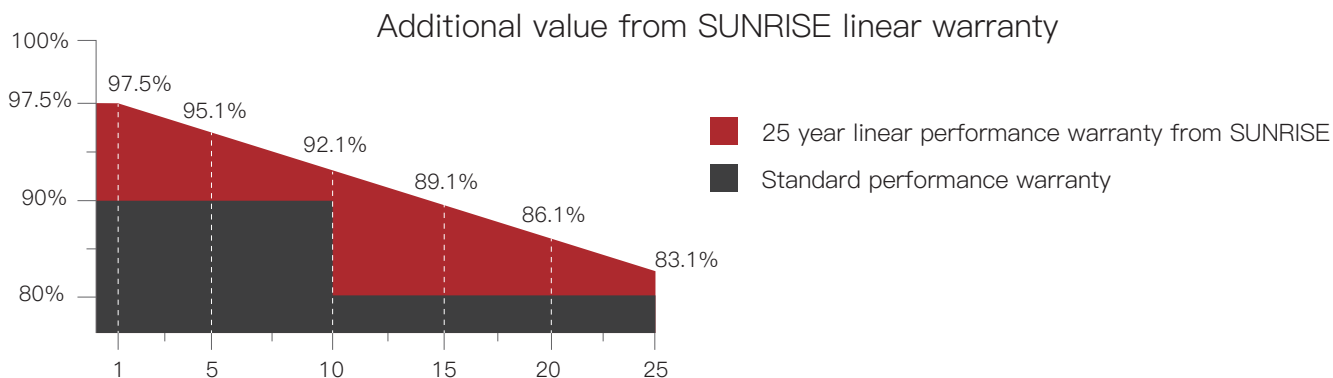
Strengthened Mechanical
Support 5400 Pa Snow
Load, 2400 Pa Wind Load



0~3% Positive Tolerance



5 Bus Bar Half Cut Cell
With PERC Technology



SUNRISE ENERGY CO., LTD

TEL:+86-519-81688389

Web:www.sunriseenergy.cn

E-mail:info@sunriseenergy.cn

ADD:No.20 Tongzi River West Road, Zhonglou Development Zone, Changzhou, Jiangsu



Large Dimension Half Cell(6x20) Full Black Solar Module

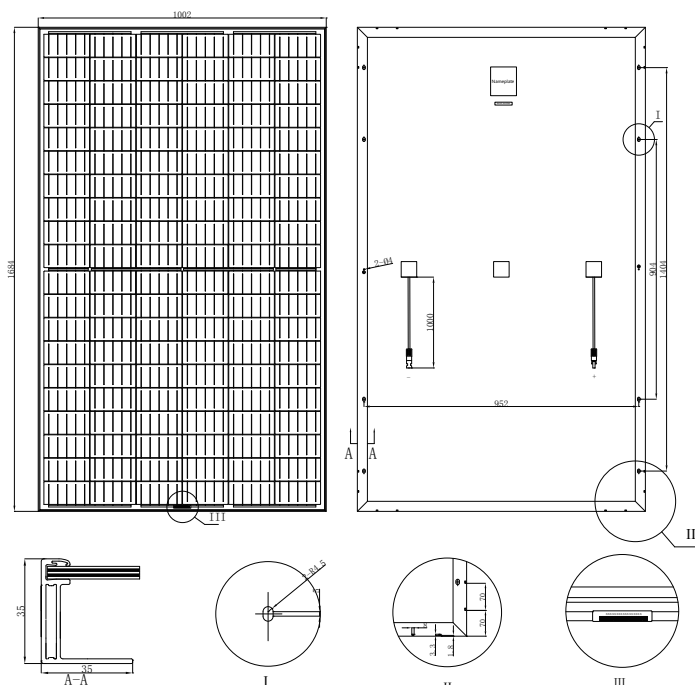


Module Type		SR-M660305HL		SR-M660310HL		SR-M660315HL		SR-M660320HL	
Test Environment		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Tolerance	(%)	0~+3		0~+3		0~+3		0~+3	
Module Efficiency	(%)	18.08		18.37		18.67		18.97	
Maximum Power	P _{max} (W)	305	227.61	310	232	315	235	320	239
Open Circuit Voltage	V _{oc} (V)	40.17	37.17	40.54	37.47	40.76	37.69	41.03	37.92
Short Circuit Current	I _{sc} (A)	9.73	8.21	9.92	8.25	9.97	8.35	10.11	8.41
Maximum Power Voltage	V _m (V)	32.91	30.97	33.11	31.12	33.32	31.33	33.51	31.5
Maximum Power Current	I _m (A)	9.27	7.34	9.37	7.45	9.46	7.51	9.55	7.59
Cell Type	(mm)	158.75×79.375(Mono-Crystalline Silicon)							
Number of Cells	(Pcs)	120(6×20)							
Maximum System Voltage	(V)	DC1000/DC1500							
Temp. Coeff. of V _{oc}	(%/°C)	-0.282							
Temp. Coeff. of I _{sc}	(%/°C)	0.041							
Temp. Coeff. of P _m	(%/°C)	-0.387							
Operating Temperature	°C	-40 to 85							
Nominal Operating Cell Temperature (NOCT)	°C	45±2							
Max. Series Fuse	(A)	15/20							
Pressure Bearing	(Pa)	5400							
Wind Bearing	(Pa)	2400							

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/s

ENGINEERING DRAWINGS

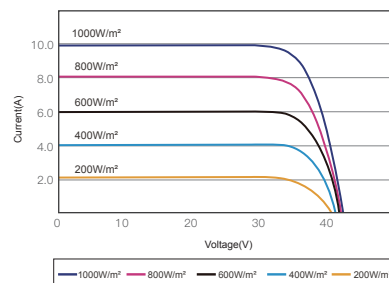


Manufactured in China

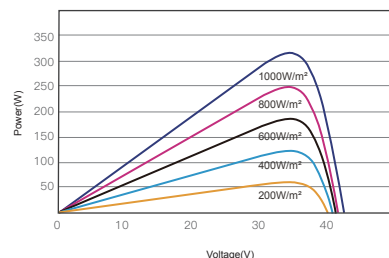
MATERIAL DETAILS

Frame	Anodized aluminum
Glass	3.2mm low-iron tempered suede glass
Cell	6×20pcs 158.75×79.375mm mono solar cell
Junction Box	Rated Current ≥ 15A, IP ≥ 68, TÜV & UL
Diode quantity	3
Cable&Connector	4mm ² , MC4 or MC4 compatible 4mm ² , EVO2 or EVO2 compatible

IV CURVES



I-V CURVES OF PV MODULE(315W)



P-V CURVES OF PV MODULE(315W)

PACKING DETAILS

Dimension	(mm)	1684×1002×35
Weight	(kg)	19.1
Loading Capacity	348 pcs / 20'GP	858 pcs / 40'HC
Packing	pcs/pallet	30