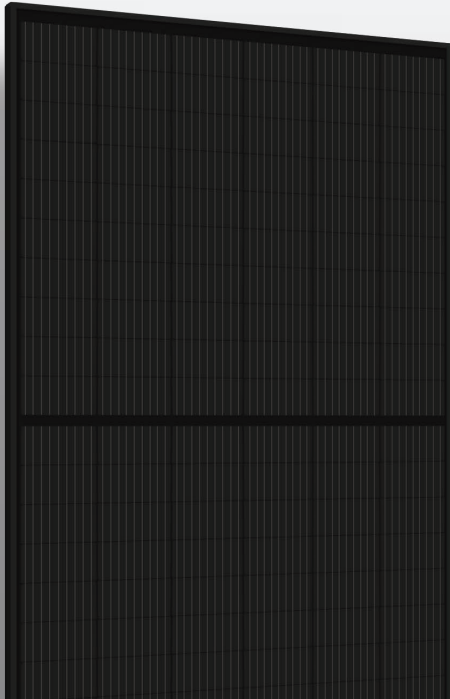


Ninja



SUNRISE 



Ninja Series  
Large Dimension Half Cell Full Black  
Mono Solar Module

SR-M660HL SR-M660315HL  
315~330W SR-M660320HL  
SR-M660325HL  
SR-M660330HL

IEC61215/IEC61730

ISO9001:Quality Management System ISO14001:Environmental Management System

ISO45001:Occupational Health and Safety Management System



PID Resistance



Higher Power Output



9 Bus Bar Half Cut Cell  
With PERC Technology



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

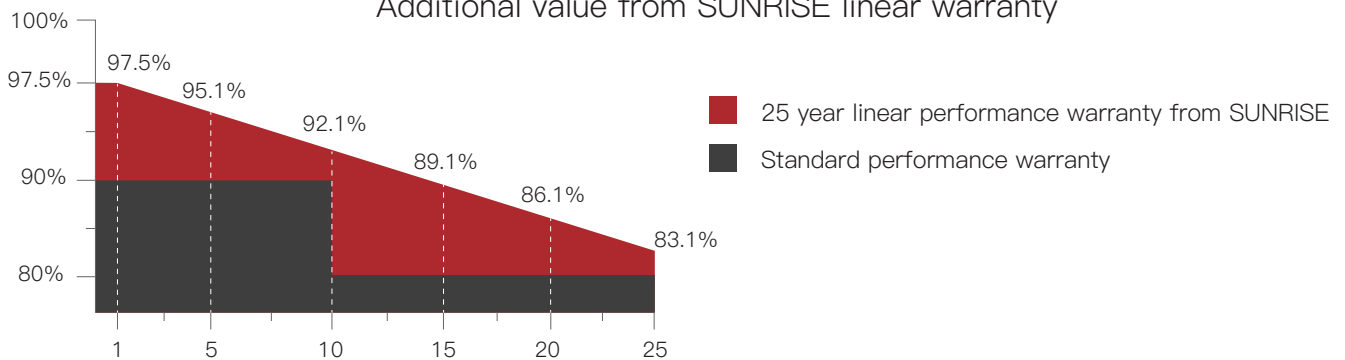


0~3% Positive Tolerance



Combined With The Roof  
For A Better Visual  
Appearance

Additional value from SUNRISE linear warranty



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

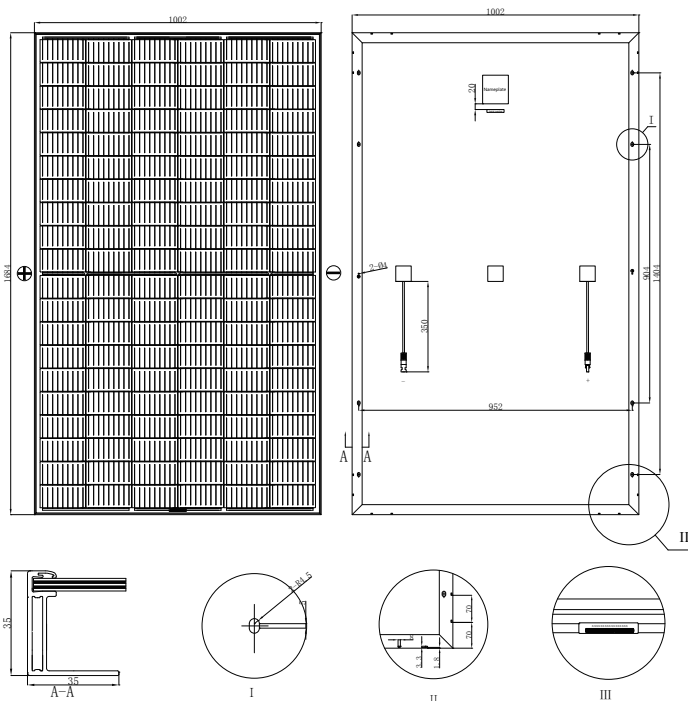


Module Type		SR - M660315HL		SR - M660320HL		SR - M660325HL		SR - M660330HL	
Test Environment		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Tolerance	(%)	0~+3		0~+3		0~+3		0~+3	
Module Efficiency	(%)	18.67		18.97		19.27		19.56	
Maximum Power	Pmax(W)	315	235	320	239	325	242	330	246
Open Circuit Voltage	Voc(V)	40.76	37.69	40.95	37.87	41.27	38.15	41.43	38.33
Short Circuit Current	Isc(A)	9.97	8.35	10.08	8.44	10.17	8.52	10.28	8.63
Maximum Power Voltage	Vm(V)	33.32	31.33	33.53	31.53	33.74	31.72	33.93	31.91
Maximum Power Current	Im(A)	9.46	7.51	9.55	7.58	9.64	7.64	9.73	7.73
Cell Type	(mm)	158.75×79.375(9BB Mono-Crystalline Silicon)							
Number of Cells	(Pcs)	120(6×20)							
Maximum System Voltage	(V)	DC1000/DC1500							
Temp. Coeff. of Voc	(%/°C)	-0.282							
Temp. Coeff. of Isc	(%/°C)	0.041							
Temp. Coeff. of Pm	(%/°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/m<sup>2</sup>, Cell temperature 25°C, AM1.5

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1m/s

## ENGINEERING DRAWINGS

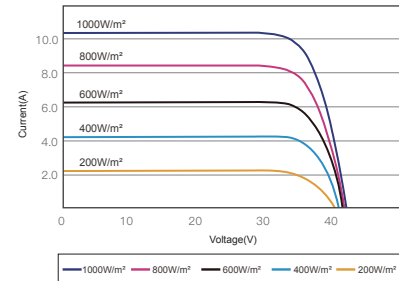


Manufactured in China

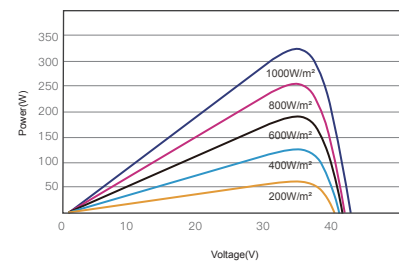
## MATERIAL DETAILS

Frame	Anodized aluminum
Glass	3.2mm low-iron tempered suede glass
Cell	6×20pcs 158.75x79.375mm mono solar cell
Diode quantity	3
Junction Box	Rated Current ≥ 15A, IP ≥ 68, TÜV & UL
Cable&Connector	4mm <sup>2</sup> , MC4 or MC4 compatible 4mm <sup>2</sup> , EVO2 or EVO2 compatible
Cable length	350mm or as customer's requirements

## IV CURVES



I-V CURVES OF PV MODULE(325W)



P-V CURVES OF PV MODULE(325W)

## PACKING DETAILS

Dimension	(mm)	1684×1002×35
Weight	(kg)	19.1
Loading Capacity		366 pcs / 20'GP    884 pcs / 40'HC
Packing	pcs/pallet	31