

## P-type 66H 645-670Watt MONO-FACIAL MODULE

### P-Type

Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

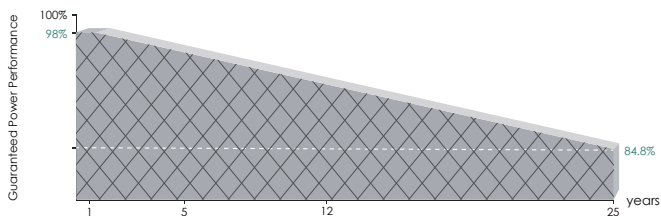
ISO14001:2015: Environment Management System

ISO45001:2018  
Occupational health and safety management systems



## Key Features

### LINEAR PERFORMANCE WARRANTY



**12** Year Product Warranty

**25** Year Linear Power Warranty

**0.55%** Annual Degradation Over 25 year



#### Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



#### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



#### Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

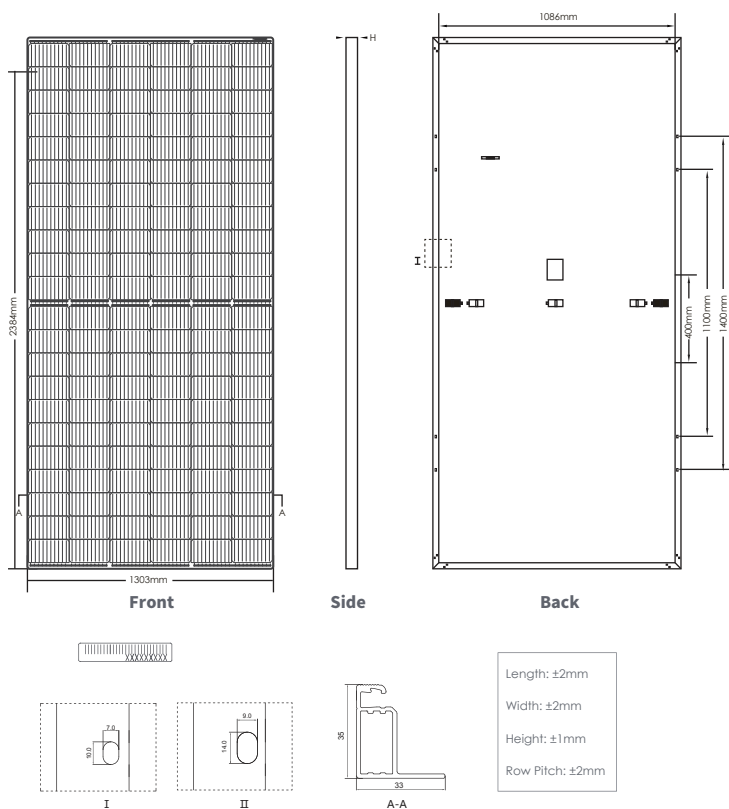


#### Longer Life-time Power Yield

0.55% annual power degradation and 25 year linear power warranty.

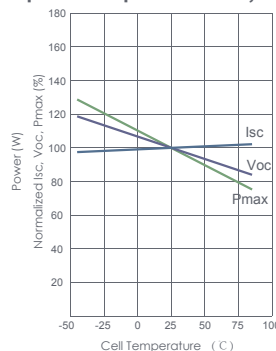


## Engineering Drawings



## Electrical Performance & Temperature Dependence

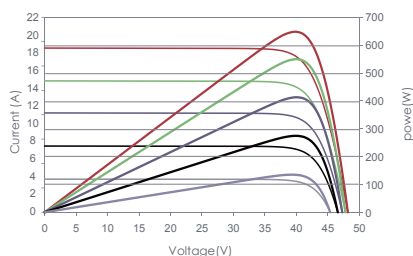
Temperature Dependence of  $I_{sc}$ ,  $V_{oc}$ ,  $P_{max}$



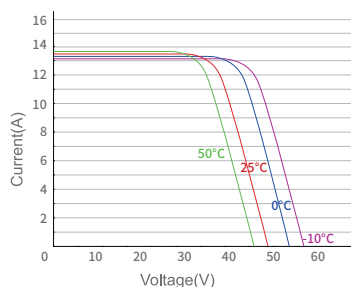
## Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	132(6×22)
Dimensions	2384×1303×35mm
Weight	34kg
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length
Packaging	31 pcs/pallets, 558 pcs/ 40'HQ Container

Current-Voltage & Power-Voltage Curves (670W)



I-V characteristics at different temperatures  
(AM1.5, 1000W/m<sup>2</sup>)



## ELECTRICAL DATA (STC)

Module Type	SKM645-670M-66H					
Maximum Power ( $P_{max}$ )(Wp)	645	650	655	660	665	670
Maximum Power Voltage ( $V_{mp}$ )(V)	37.58	37.76	37.94	38.12	38.3	38.48
Maximum Power Current ( $I_{mp}$ )(A)	17.17	17.22	17.27	17.32	17.37	17.42
Open-circuit Voltage ( $V_{oc}$ )(V)	45.15	45.35	45.55	45.75	45.95	46.15
Short-circuit Current ( $I_{sc}$ )(A)	18.18	18.23	18.28	18.33	18.38	18.43
Module Efficiency STC (%)	20.8	20.9	21.1	21.2	21.4	21.6

## ELECTRICAL DATA (NMOT)

Module Type	SKM645-670M-66H					
Maximum Power ( $P_{max}$ )(Wp)	488.6	492.4	496.2	500	503.8	507.6
Maximum Power Voltage ( $V_{mp}$ )(V)	34.87	35.04	35.21	35.38	35.54	35.71
Maximum Power Current ( $I_{mp}$ )(A)	14.01	14.05	14.09	14.13	14.17	14.21
Open-circuit Voltage ( $V_{oc}$ )(V)	41.99	42.18	42.36	42.55	42.73	42.92
Short-circuit Current ( $I_{sc}$ )(A)	14.91	14.95	14.99	15.03	15.07	15.11

## TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	45 $\pm$ 2°C
Temperature Coefficient of $V_{oc}$	-0.25%/°C
Temperature Coefficient of $I_{sc}$	0.04%/°C
Temperature Coefficient of $P_{max}$	-0.34%/°C
Power tolerance	0~+3%
Operational Temperature	-40 °C~+85°C
Maximum System Voltage	1500VDC (IEC)
Max Series Fuse Rating	30A

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

©2022 Siko Solar Co., Ltd. All rights reserved.

Add: Room 707, Ruishangju, Xixiang Street Bao'an District, Shenzhen, China Web: www.sikosolar.com Email: info@sikosolar.com  
Specifications included in this datasheet are subject to change without notice.