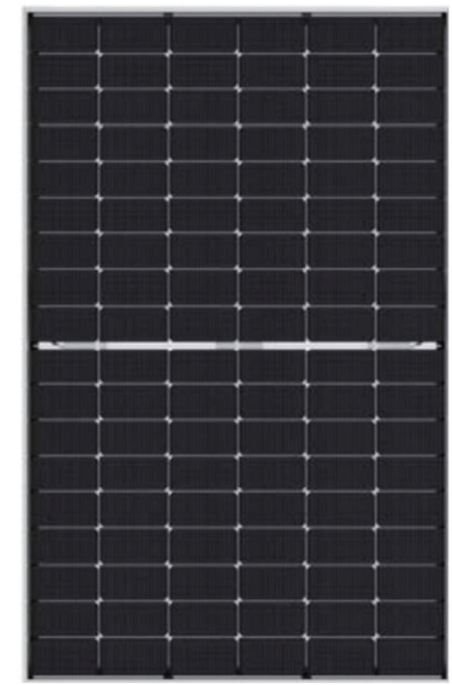
SoleHoyo Photovoltaic Modules

16BB48H 435-455W

N-Type Bifacial Mono Half-Cut Cells



Complete System：

IEC61215(2016), IEC61730(2016) ISO9001:2015:

Quality Management System

ISO14001:2015:

Environmental Management System

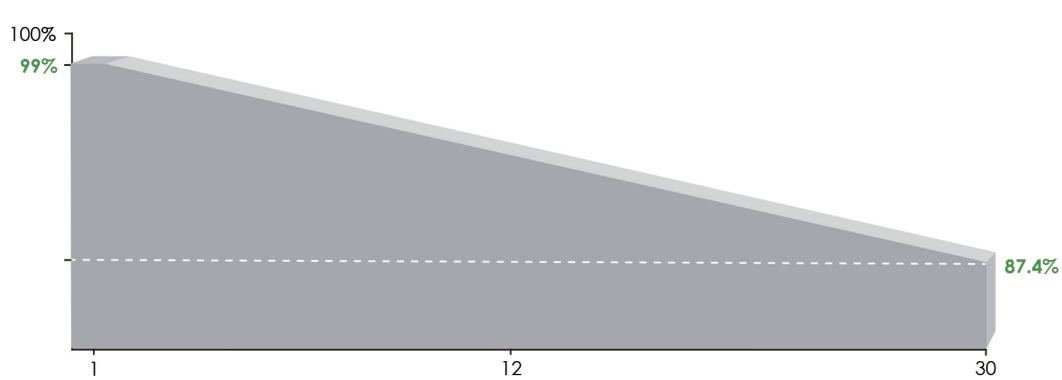
ISO45001:2018

International Standards for Occupational health & safety

Product Features

- Better power output
- Lower BOS and LOCE
- Better low light performance
- Better reliability and efficiency

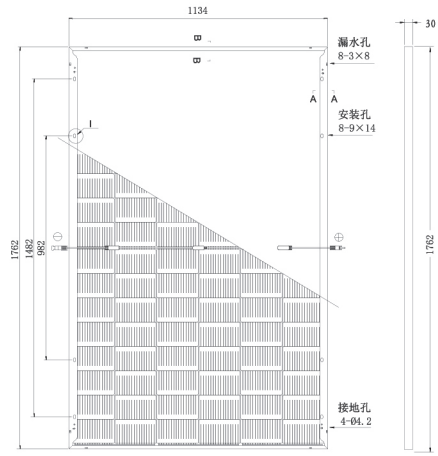
Standard Module Linear Performance Warranty

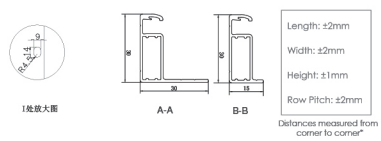


12 years product warranty

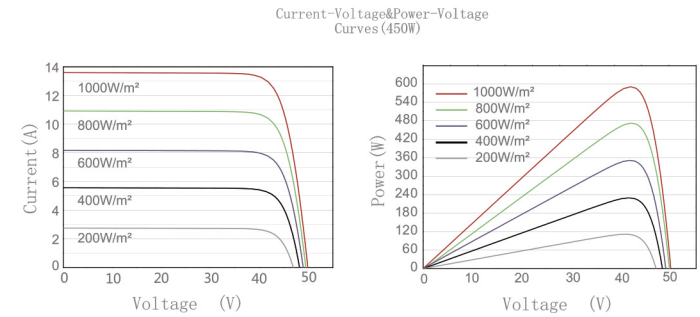
30 years linear power warranty

Engineering Drawings





Characteristics



Operating Conditions

Temperature Coefficients of Pmax	−0.29 %/° C
Temperature Coefficients of Voc	−0.25%/° C
Temperature Coefficients of Isc	+0.043 %/° C
NOCT	45 ± 2° C
Operating Temperature	−40℃~+85℃

Mechanical Characteristics

Cell Type	N -type 182 Mono-crystalline
No. of cells	96(6x16)
Weight/Size	24Kg/1762mmx1134mmx30mm
Glass	2+2mm High Transmission Glasses
Frame	Anodized Aluminium Alloy
Junction Box	25A,3 diodes
Output Cables	4.0 mm²(+): 300 mm , (-): 300 mm or Customized Length
Packaging	36pcs/pallets, 936 pcs/ 40'HQ Container

Electrical Parameters

Type	16BB48H-435		16BB48H-440		16BB48H-445		16BB48H-450		16BB48H-455	
Testing conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power – Pmax [Wp]	435	355	440	429.30	445	433.00	450	436.90	455	440.10
Bifacial Maximum Power – Pmax [Wp]	479		484		490		495		501	
Open-circuit Voltage – Voc [V]	34.71	34.81	34.88	34.98	35.05	35.15	35.22	35.32	35.39	35.49
Short-circuit Current – Isc [A]	15.88	12.68	15.96	12.74	16.04	12.80	16.12	12.86	16.2	12.92
Maximum Power Voltage – Vmp [V]	29.45	29.32	29.58	29.52	29.71	29.69	29.84	29.86	29.97	30.03
Maximum Power Current – Imp [A]	14.77	12.10	14.87	12.17	14.98	12.24	15.08	12.31	15.18	12.38
Module Efficiency STC [%]	21.8%		22.0%		22.3%		22.5%		22.8%	
Maximum System Voltage	1500									
Maximum Series Fuse Rating	25									
Power Tolerance	± 3%									

STC: Illumination intensity 1000W/m² Cell temperature 25℃ Atmosphere quality=1.5

NOCT: Illumination intensity 800W/m² Cell temperature 20℃ Atmosphere quality=1.5 Wind speed 1m/s

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