Building the Solar World with Technology & Wisdom

Summit Series

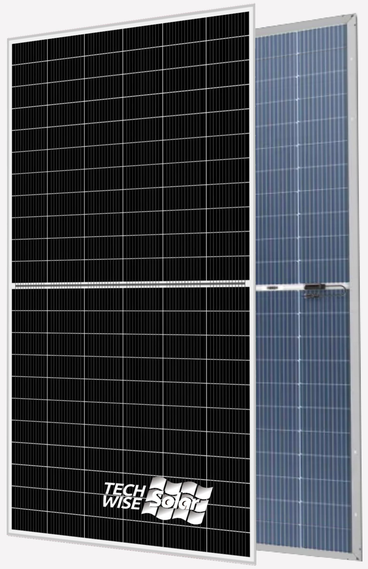
Perc Bifacial
132 - cell Module

TW-660HF

650 - 660W

0-3%Positive Tolerance

Monocrystalline | Half Cell | 12BB | Grade A



• MODULE FEATURES

High Efficiency
Perc technology improves efficiency, increases power generation, and contributes to lower LCOE.

Lower Heat Spot Risk
Innovative circuit design and "Half Cell" structure decrease the temperature of heat spots and effectively reduce power loss.

Excellent Low-light Performance
Reliable performance in low-light conditions such as in the morning,at dusk or during raining days.

Resilient to Extreme Weather
Carefully selected materials ensure the module still works well under the condition of 2400Pa wind load and 5400Pa snow load.

PID Resistant
High quality solar cell and advanced processing technology contribute to excellent PID resistance performance.

Double-sided electricity generation
Power can be generated on both sides to support additional output gains of up to 25%. The multi-busbar half-cut technology can boost energy density to deliver higher output.

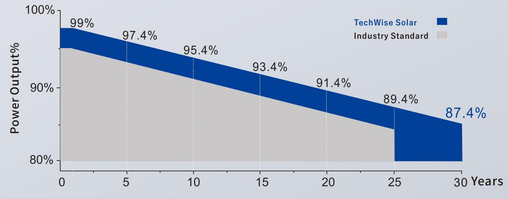
• Quality Certification

ISO

• Product Qualification

TUV SUD | CE | CQC

• Performance Warranty



15 Years Product Warranty

30 Years Linear Power Warranty

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TW-660HF

•Product Specification•

Cell Type	Mono crystalline
Cell Quantity	132 cell
Cell Size(mm)	210*105
Module Size(mm)	2384*1303*35
Module Weight(kg)	38
Glass Thickness(mm)	2.0
Frame Material	Anodized aluminum alloy
Junction Box	IP68
Cable/Connector	4mm², MC4compatible
Cable Length	+300mm/-300mm;or Customize
Max System Volt(V)	1500V DC
Max Fuse Rate(A)	30
Power Tolerance(%)	0-+3%

•Electrical Characteristics•

STC standard performance >>>

Power Level	650	655	660
Pmax(W)	650	655	660
Vmp(V)	37.51	37.67	37.83
Imp(A)	17.33	17.39	17.45
Voc(V)	45.34	45.49	45.64
Isc(A)	18.38	18.44	18.50
Module Efficiency(%)	20.92	21.08	21.26

NOCT standard performance >>>

Power Level	650	655	660
Pmax(W)	492	495	499
Vmp(V)	34.70	34.79	34.95
Imp(A)	14.18	14.23	14.28
Voc(V)	42.17	42.31	42.45
Isc(A)	15.04	15.09	15.14

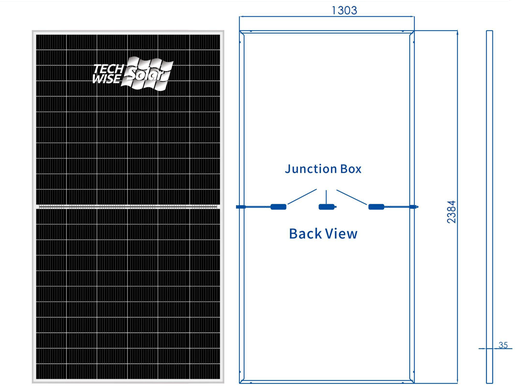
•Bifacial output-backside power gain•

5%Pmax(W)	683	688	693
5% Module Eiffciency	24.13	24.31	24.49
15% Pmax(W)	748	753	759
15% Module Eiffciency	26.43	26.61	26.82
25% Pmax(W)	813	819	825
25% Module Eiffciency	28.73	28.94	29.15

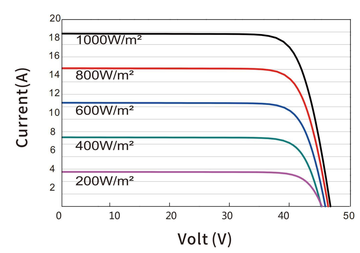
•Temperature Characteristics•

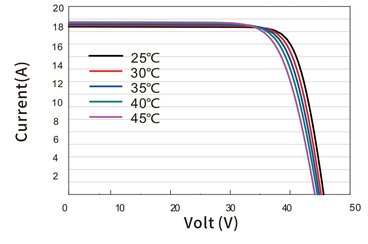
Operating Temp(℃)	-40~85
Operating Humidity(℃)	5~85
Hail Load Tolerance	25mm hailstone with velocity of 23m/s
Temp Coefficient	-0.340
Temp Coefficient Isc (%℃)	0.04
Temp Coefficient Voc (%℃)	-0.25
Operating Temp (℃)	44±2

•Engineering Drawings•



•I-V Curve•





•Packaging Info•

Pieces per Pallet	31
Size of Packaging(mm)	2510*1325*1120
Weight of per Pallet(kg)	1203
Pieces per Container	558
Size of Container	40'HC

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(Feb 2023 V2 Edition)