

MSTK-33

645-670W

Mono Bifacial Half Cell Module

Key Product Features



Higher Output Power

Module power up to 670W
Average cell efficiency up to 23 %



Reliability for output performance

Positive power tolerance 0-5W,
reliable output performance
Excellent optical performance



Lower LCOE

(Levelized Cost Of Energy)

Significantly decrease BOS costs and
operation and maintenance costs



Superior adaptability

3600 Pa for positive(downward) and
1600 Pa for negative (upward)
Safety factors Ym:1.5
Corresponding to maximum snow and ice
load 5400Pa,maximum wind load 2400Pa

Comprehensive product certification

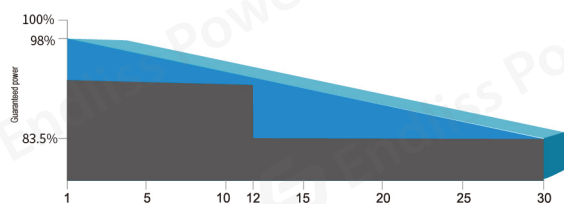
- IEC61215-1(ed.1)
- IEC61215-1-1(ed.1)
- IEC61215-2(ed.1)
- IEC61730-1(ed.2)
- IEC61730-2(ed.1)
- UL 61730-1 1st Edition
- UL 61730-2 1st Edition



Industry-leading Quality Assurance



■ Linear power warranty
■ Industry Standard



• Please refer to the warranty letter for details



Solar Power

Electrical Data(STC*)

Module Type: MSTK-33	645	650	655	660	665	670
Rate Maximum Power(Pmax)(W)	645	650	655	660	665	670
Open Circuit Voltage(Voc) (V)	45.32	45.45	45.58	45.72	45.85	45.98
Short Circuit Current(Isc) (A)	18.13	18.17	18.21	18.24	18.27	18.32
Maximum Power Voltage(Vmp)(V)	37.77	37.86	37.95	38.04	38.12	38.21
Maximum Power Current (Imp) (A)	17.10	17.18	17.27	17.36	17.45	17.54
Module Efficiency (%)	20.76	20.92	21.10	21.26	21.41	21.57

* Standard Test Conditions (STC) : irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

Electrical Data(NMOT*)

Module Type: MSTK-33	645	650	655	660	665	670
Rate Maximum Power(Pmax)(W)	489.1	492.4	495.7	499.0	502.2	505.9
Open Circuit Voltage(Voc) (V)	42.8	42.90	43.00	43.10	43.20	43.40
Short Circuit Current(Isc) (A)	14.6	14.64	14.68	14.70	14.72	14.77
Maximum Power Voltage(Vmp)(V)	35.1	35.30	35.50	35.70	35.80	36.00
Maximum Power Current (Imp) (A)	13.91	13.94	13.97	14.00	14.02	14.06

* Nominal Module Operating Temperature (NMOT): irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

Operational Parameter

Operating Temperature	-40°C~+85°C				
NMOT (Nominal Module Operating Temperature)	45°C±2°C				
Maximum System Voltage(V)	1500 (VDC)				
Maximum Fuse Current Rating(A)	30A				
Fire Safety	Class C				
Power Tolerance	0~+5W				
Bifacial Factor	65±5%				
PG. 660W	5%	10%	15%	20%	25%
Rate Maximum Power(Pmax)(W)	693	726	759	792	825
Open Circuit Voltage(Voc) (V)	45.72	45.72	45.72	45.72	45.72
Short Circuit Current (Isc) (A)	19.15	20.07	20.98	21.89	22.80
Maximum Power Voltage(Vmp)(V)	38.04	38.04	38.04	38.04	38.04
Maximum Power Current(Imp) (A)	18.23	19.09	19.96	20.83	21.70

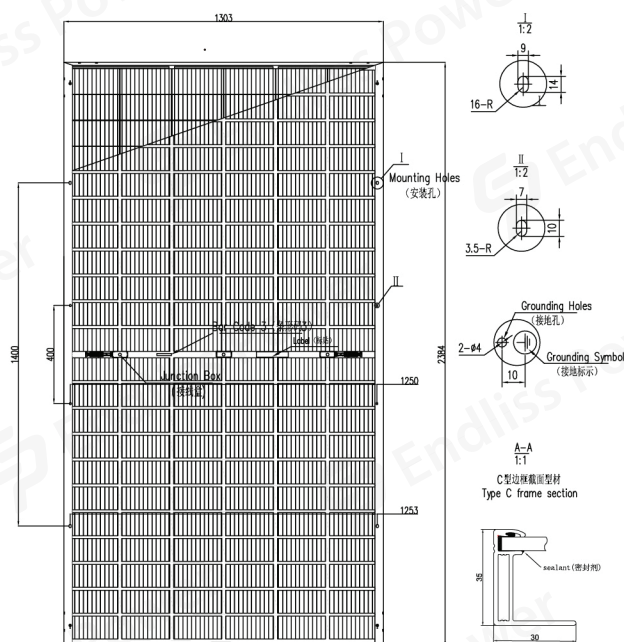
Mechanical Properties

Cell Type	210mm*105mm
Number of Cells	132
Dimension of Module	2384*1303*35mm
Weight	33.9kg ± 5%
Front Glass	3.2mm tempered glass with AR Coating
Frame	Anodized aluminum alloy
Junction Box	IP68(3 Diodes)
Cable Length	+320mm, -260mm(4.0mm ²); or Customized Length
Packing Information	558(31*18)pcs per 40'HQ

Temperature Coefficient

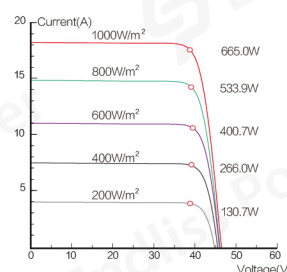
Peak Power Temperature Coefficient	-0.328%/°C
Open-Circuit Voltage Temperature Coefficient	-0.254%/°C
Short-Circuit Current Temperature Coefficient	0.041%/°C

Drawing



I-V curve

Current-Voltage Curve (665W)
Cells temp.=25°C



Power-Voltage Curve (665W)
Cells temp.=25°C

