

BIPRO

TD6E60M **60-cell**

315 – 335W

bifacial dual glass mono perc



KEY FEATURES



Industry leading high yield

Bifacial PERC cell technology,
5%-25% more yield depends on different conditions



Additional Power Generation Gain

30-year linear performance warranty,
more than 30% additional power gain



ZERO PID (Potential Induced Degradation)

Bifacial double glass design, PID free



Excellent low light performance

Excellent low light performance on cloudy days,
mornings and evenings



Wider application

No water-permeability and high wear-resistance,
can be widely used in high-humid, windy and dusty area



IP68 junction box

High waterproof level

SYSTEM & PRODUCT CERTIFICATES

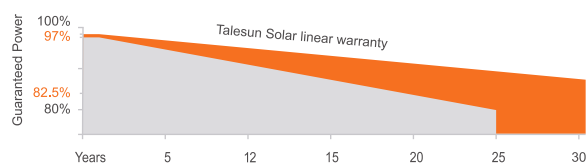
- IEC 61215 / IEC 61730 / UL 1703
- ISO 9001 : 2015 Quality Management System
- ISO 14001 : 2015 Environment Management System
- ISO 45001 : 2018 Occupational Health and Safety Management Systems



PERFORMANCE WARRANTY



- Bifacial Dual Glass Mono Solar Module Linear Performance Warranty
- Conventional Mono Solar Module Linear Performance Warranty



ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 - +3%)

Maximum Power(P _{max} /W)	315	320	325	330	335
Operating Voltage(V _{mpp} /V)	33.2	33.5	33.8	34.2	34.6
Operating Current(I _{mp} /A)	9.49	9.56	9.62	9.66	9.69
Open-Circuit Voltage(V _{oc} /V)	39.9	40.1	40.3	40.5	40.7
Short-Circuit Current(I _{sc} /A)	10.09	10.16	10.22	10.26	10.29
Module Efficiency η _m (%)	18.7	19.0	19.3	19.6	19.9

Performance at NMOT

Maximum Power(P _{max} /W)	236.1	239.8	243.3	247.0	250.3
Operating Voltage(V _{mpp} /V)	30.8	31.1	31.4	31.7	32
Operating Current(I _{mp} /A)	7.65	7.71	7.76	7.79	7.82
Open-Circuit Voltage(V _{oc} /V)	37.4	37.5	37.7	37.9	38.1
Short-Circuit Current(I _{sc} /A)	8.14	8.19	8.24	8.27	8.3

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

Electrical characteristics with different rear side power gain (reference to 315W front)

P _{max} gain	P _{max} /W	V _{mpp} /V	I _{mp} /A	V _{oc} /V	I _{sc} /A
5%	330.75	33.8	9.7965	40.3	10.3215
10%	346.5	33.8	10.263	40.3	10.813
15%	362.25	33.8	10.7295	40.3	11.3045
20%	378	33.8	11.196	40.3	11.796
25%	393.75	33.8	11.6625	40.3	12.2875

MECHANICAL SPECIFICATION

Cell Type	Mono-Crystalline Silicon
Cell Dimensions	158.75*158.75mm(6inches)
Cell Arrangement	60(6*10)
Weight	23.5kg(51.81lbs)
Module Dimensions	1676*1006*6mm(65.98*39.61*0.24inches)
Cable Length	300mm(11.81inches)
Cable Cross Section Size	4mm ² (0.006inches ²)
Front Glass	2.5mm High Transmission, Tempered Glass
No.of Bypass Diodes	3/6
Packing Configuration	33pcs/Pallet,858pcs/40hq
Frame	Frameless
Junction Box	IP68

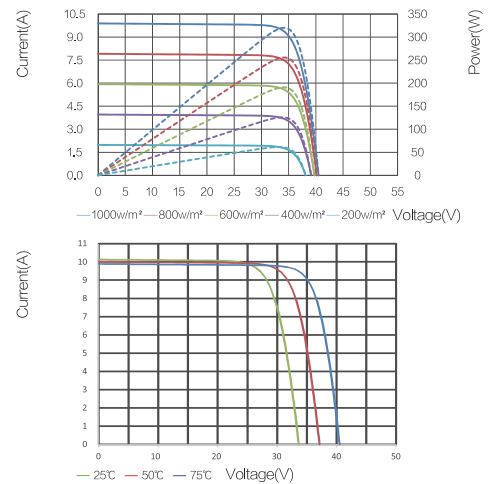
OPERATING CONDITIONS

Maximum System Voltage	1500V/DC(IEC)
Operating Temp	-40°C~+85°C
Maximum Series Fuse	20A
Static Loading	3600Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible
Backside Output Ratio*	>75%
*Under STC: Backside Output Ratio = P _{max} (rear) / P _{max} (front)	

TEMPERATURE COEFFICIENT

Temperature Coefficient P _{max}	-0.39%/°C
Temperature Coefficient V _{oc}	-0.30%/°C
Temperature Coefficient I _{sc}	+0.05%/°C
NMOT	42±2°C

I-V CURVE



TECHNICAL DRAWINGS

