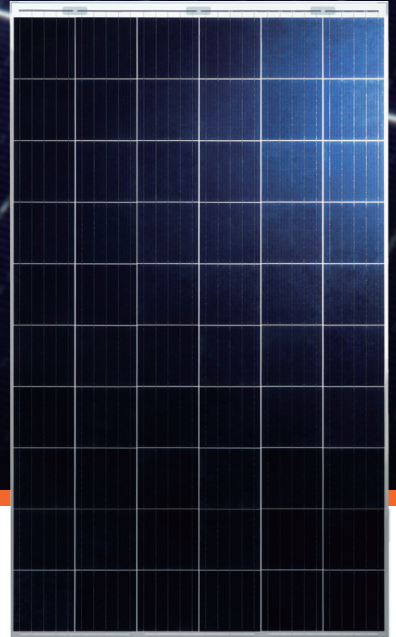


TWINKLE

TD660P - 270 / 275 / 280 / 285W

Dual Glass Polycrystalline Solar Module-Framrless
60-Cell Series



KEY FEATURES



Additional Power Generation Gain

30-year linear performance warranty



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

Highest waterproof level



Higher Security

Higher fire safety class to minimize fire risks

ABOUT TALESUN SOLAR

TALESUN Solar is one of the world's largest integrated clean energy providers with 4 GW cell and 5 GW module production capacity globally. Its standard and high-efficiency product offerings are among the most powerful and cost-effective in the industry. Talesun Solar is committed to provide customers with customized; systematized and trustworthy turnkey solutions. Till now, Talesun Solar has accumulatively shipped more than 10 GW modules globally.

SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 1703
- ISO 9001 : 2008 Quality Management System
- ISO 14001 : 2004 Environment Mangement System
- OHSAS 18001 : 2007 Occupational Health and Safety Management System



QUALITY WARRANTY

TALESUN guarantees that defects will not appear in materials and workmanship defined by IEC61215, IEC61730 or UL1703 under normal installation, use and maintenance as specified in Talesun's installation manual for 10 years from the warranty starting date.

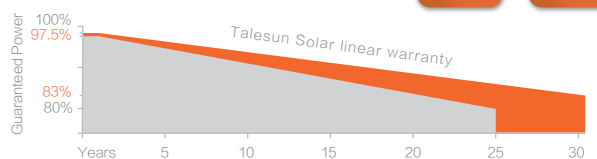


PERFORMANCE WARRANTY

Dual Glass Polycrystalline Solar Module

10 years
Quality assurance

30 years
Power output guarantee



Web: www.taesun.com
Tel: +86 400 885 1098
Add: No.1 Taesun Road, Shajibang, Changshu, P.R. China

TALESUN

ELECTRICAL PARAMETERS

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

Maximum Power (Pmax/W)	270	275	280	285
Operating Voltage (Vmpp/V)	31.3	31.7	32.0	32.3
Operating Current (Impp/A)	8.63	8.69	8.76	8.83
Open-Circuit Voltage (Voc/V)	38.5	38.7	39.0	39.3
Short-Circuit Current (Isc/A)	9.09	9.17	9.25	9.30
Module Efficiency η_m (%)	16.4	16.7	17.0	17.3

Performance at NOCT

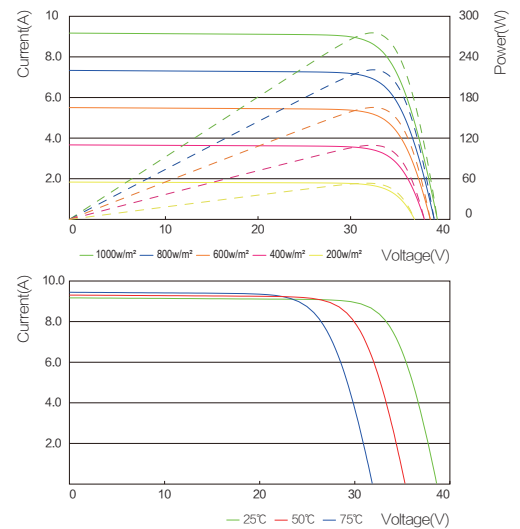
Maximum Power (Pmax/W)	199	203	207	210
Operating Voltage (Vmpp/V)	28.9	29.2	29.4	29.7
Operating Current (Impp/A)	6.90	6.97	7.04	7.08
Open-Circuit Voltage (Voc/V)	35.5	35.7	36.0	36.2
Short-Circuit Current (Isc/A)	7.36	7.42	7.49	7.53

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

MECHANICAL SPECIFICATION

Cell Type	Poly
Cell Dimensions	156.75*156.75mm(6inch)
Cell Arrangement	60(6*10)
Weight	22.5kg(50.7lbs)
Module Dimensions	1658*992*23mm(65.3*39.1*0.9inch)
Cable Length	500mm(35.5inch)
Cable Cross Section Size	4mm ² (0.006sq.in)
Front Glass	2.5mm High Transmission, Tempered Glass
No.of Bypass Diodes	3/6
Packing Configuration (1)	33pcs/pallet, 858pcs/40hq
Frame	Frameless
Junction Box	IP68

I-V CURVE



OPERATING CONDITIONS

Maximum System Voltage	1000V/DC(IEC)/1500V/DC(IEC)
Operating Temp	-40°C – +85°C
Maximum Series Fuse	15A
Static Loading	5400Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	II
Resistance	≥ 100MΩ
Connector	MC4 Compatible

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.40%/°C
Temperature Coefficient Voc	-0.31%/°C
Temperature Coefficient Isc	+0.06%/°C
NOCT	45 ± 2°C

TECHNICAL DRAWINGS

