

PV SOLAR MODULE

250W+260Wp Poly Crystalline

Panel type: PHOTON SOLAR TPL-XXXP-60

Photon Solar®
Energy - Germany



Panel Size 1640x992x35mm



30 Years Performance Guarantee
German Manufacturer



High Efficiency

High module conversion efficiency (up to 16.8%), through innovative manufacturing technology.



Optimal Low-Light Performance

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



Extreme Weather Resistant

Certified highest pressure ability
wind Load (2400 Pascal), Snow Load (5400 Pascal)



4 Busbar Solar Cell

4 busbar solar cell adopts new technology to improve the efficiency of modules, latest State-of-the-art technology



Superior Quality Control

Full automatic production line ISO9001:2008 quality management system
100% three times EL and appearance inspection



Performance Guarantee

With the linear performance guarantee of 30 years and a product warranty of 12 years, PHOTON SOLAR- Germany guarantees highest investment security and long-term reliable functionality.



Plus tolerance

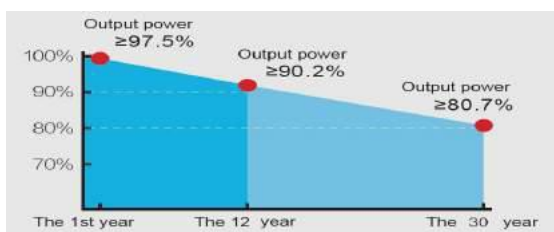
0-+5W positive power tolerance guarantees the highest system efficiency and yield stability



TÜV Certified

PV panels of this type under Photon Solar Germany brand are TÜV Süd (Germany) certified under the licence of TPL, London, UK in accordance to the TÜV Süd product certificate number 72 16 08 96 956 002.

Linear performance guarantee from Germany



EN 61215:2005
EN 61730-1:2007/A2:2013
EN 61730-2:2007/A1:2012

Certified global standards: Strictly controlled production:

PHOTON SOLAR is member of:



German
Quality
Guarantee



PHOTON SOLAR ENERGY GMBH
Niermannsweg 11-15, 40699 Erkrath, Germany

Email: info@photon-solar.de

Web: www.photon-solar.de

PHOTON SOLAR TPL-250P-60 - GS1-Germany certified - global trade item number - GTIN: 4260478051560

PHOTON SOLAR TPL-260P-60 – GS1-Germany certified - global trade item number - GTIN: 4260478051577

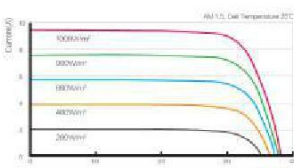
ELECTRICAL DATA		245Wp	250Wp	255Wp	260Wp	265Wp	270Wp
Nominal power	Pm (Wp)	245	250	255	260	265	270
Open circuit voltage	Voc (V)	36.42	37.08	37.74	37.94	38.07	38.27
Short-circuit current	Isc (A)	8.97	8.99	9.01	9.06	9.37	9.48
Voltage at max power	Vmp (V)	30.93	31.46	31.74	32.28	32.63	32.87
Current at max power	Imp (A)	7.92	7.95	8.03	8.05	8.13	8.22
Module efficiency	(%)	15.06	15.37	15.67	15.98	16.29	16.60
Cells efficiency	(%)	16.95	17.29	17.64	17.99	18.33	18.68
System Voltage	(V)	1000					
Temp. coefficient Voc	(%; °C)	-0.36					
Temp. coefficient Isc	(%; °C)	0.06					
Temp. coefficient Pm	(%; °C)	-0.36					
Operating temp.	(°C)	-40 to +85					
NOCT	(°C)	45±2					

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m² with spectrum AM 1.5 and a cell temperature of 25°C.

TECHNICAL DATA

Junction box	3 bypass diodes, IP67
Wire cross section (Ø, mm ²)	4.0
Cable lenght (mm)	900
Connector type	MC4/MC4 compatible
Dimensions (L x W x H, mm)	1640 x 992 x 35
Weight (kg)	18.5
Cell dimensions (mm)	156 x 156
No of cells / assembly	60 / 6 x 10
Type of cells	poly-crystalline
Hail resistance	Max. Ø 28 mm at 23 m/s
Wind load	2400Pa / 244kg / m ²
Mechanical load	5400Pa / 550kg / m ²

I-V CURVE



UNITS PACKING

Pallet Size: 1655x1035x1010 MM
 Net/Gross Weight: 560/600 KGS
 1 pallet: 30 modules
 20' Container: 360 modules
 40' Container: 840 modules

DIMENSIONS

