



German
Guarantee

Photon Solar®
Energy-Germany

GTIN: 42 6047805 0136, 42 6047805 0143

PH-250/260P-60 - PREMIUM (international)

Poly crystalline photovoltaic solar panel

250 Wp

260 Wp

Power

Poly crystalline solar panel of the PHOTON SOLAR PH-XXXXP-60 PREMIUM (international) series are actually offered in 250Wp and 260Wp power sizes.

High performance at 18.17 % cell efficiency

Poly crystalline premium solar cells assure a high grade of energy efficiency.

Positive power tolerance (0 / + 3%)

Positive power tolerances (PLUS POWER) ensure a high reliability of power output (DC) as well high panel efficiency. No minus tolerances.

Certified production

ISO certified production line (Quality Management System), strict production guidelines and controls, highest quality standards, TÜV certified product, GS1 Germany certified for global standards (GTIN).

High-grade material

Premium components with highest quality of noted suppliers only are used. Regular controls in all stages of production ensure long-term reliability of solar panels of the PH-series.

Container delivery to destination port

Delivery by sea freight, container units shipment from overseas. Delivery to destination port (CIF sea port), Sales / Delivery term: CIF.

25 Years performance guarantee

Product- and performance guarantee of German manufacturer.*



IEC61215, IEC61730, CE

German manufacturer guarantee*

10 Years

Product guarantee

12 Years performance

Minimum 90 % power output

25 Years performance

Minimum 80% power output

* According to warranty terms

PHOTON SOLAR - Energy

PHOTON SOLAR Energy GmbH – located in Erkrath (NRW), Germany - is an experienced and professional manufacturer of high-performance photovoltaic solar panels.

The company runs its own production line in Germany and several production lines abroad.

The product range includes mono- and poly crystalline solar panels in all power sizes as well as special panels for customer-specific applications.

Solar modules from PHOTON SOLAR are distributed by wholesalers and authorized sales partners in Germany and abroad.



PH-250/260P-60 - PREMIUM (international)

MECHANICAL PARAMETER		MECHANICAL DRAWING
Cell type	Poly crystalline, 156×156mm	
Number of cells	60 (6×10)	
Dimensions (L x W x D)	1640 × 992 × 40 mm	
Weight	18.6 kg	
Front glass	Hardened special solar glass 3.2 mm	
Encapsulation	Ethylene-Vinylacetat (EVA)	
Back sheet	Multiply polyester sheet (PET)	
Connection material	Silicone	
Frame	Aluminum box profile, anodised	
Junction box / Bypass diodes	IP 65 / 3 Bypass diodes	
Mechanical load, loading pressure	Tested up to 5,4 kN/m ²	
Wind load/ Snow pressure	2400pa / 5400pa (Snow load zone 3)	
Connection wire (UV protected)	2 x 0.90 m, 4mm ² , MC4 Connectors	

Illustration similar: Frame size 1640 x 992 x 40mm

ELECTRICAL CHARACTERISTICS

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC: 1000 W/m², 25 °C +/- 2%, AM 1,5)

Panel Type Name	PH-250P-60	PH-260P-60		
Global Trade Item Number (GTIN)	42 6047805 0136	42 6047805 0143		
Maximum Power (Pmax)	250 Wp	260 Wp		
Short Circuit Current (Isc)	8,62 A	9,03 A		
Open Circuit Voltage (Uoc)	36,99 V	38,04 V		
Maximum Power Current (Impp)	8,06 A	8,21 A		
Maximum Power Voltage (Umpp)	31,02 V	31,70 V		
Cell Efficiency	17,47 %	18,17 %		
Panel Efficiency	15,4 %	16,01 %		
Power Tolerance +	0 to + 3 % (PLUS- sorted power sizes, no minus tolerances)			

PERFORMANCE UNDER NORMAL OPERATING CELL TEMPERATURES (NOCT: 800W/m², 47 +/- 3 °C, AM 1,5)

Maximum Power (Pmax)	-	-		
Short Circuit Current (Isc)	-	-		
Open Circuit Voltage (Uoc)	-	-		
Maximum Power Current (Impp)	-	-		
Maximum Power Voltage (Umpp)	-	-		

Minor reduction in efficiency under partial load conditions at 25 °C, at 200 W/m², 95% (+/- 3%) of STC efficiency (1000 W/m²) will be achieved.

THERMAL CHARACTERISTICS

Normal Operating Cell Temperature	47 °C
Temperature Coefficient Pmax (γ)	-0,45 % / K
Temperature Coefficient Uoc (β)	-0,35 % / K
Temperature Coefficient Isc (α)	0,04 % / K
Operating Temperature	-45 °C up to +85 °C
Outdoor Temperature	-45 °C up to +45 °C

PACKAGING

250Wp Container (20GP)	14 pallets = 358 pcs x 250Wp = 89.5 KWp
250Wp Container (40HQ)	28 pallets = 840 pcs x 250Wp = 210 KWp
260Wp Container (20GP)	14 pallets = 358 pcs x 260Wp = 93.08 KWp
260Wp Container (40HQ)	28 pallets = 840 pcs x 260Wp = 218.4 KWp

Note about data sheet: Errors and typing mistakes reserved.

PARAMETER DER SYSTEMINTEGRATION

System Integration	1000 V
Reverse Current	-
Reverse Current Connection	-
Panel Protection	IP 65
Application Classification	IEC 61215, IEC 61730,
Marking	CE

Distributor / Sales: