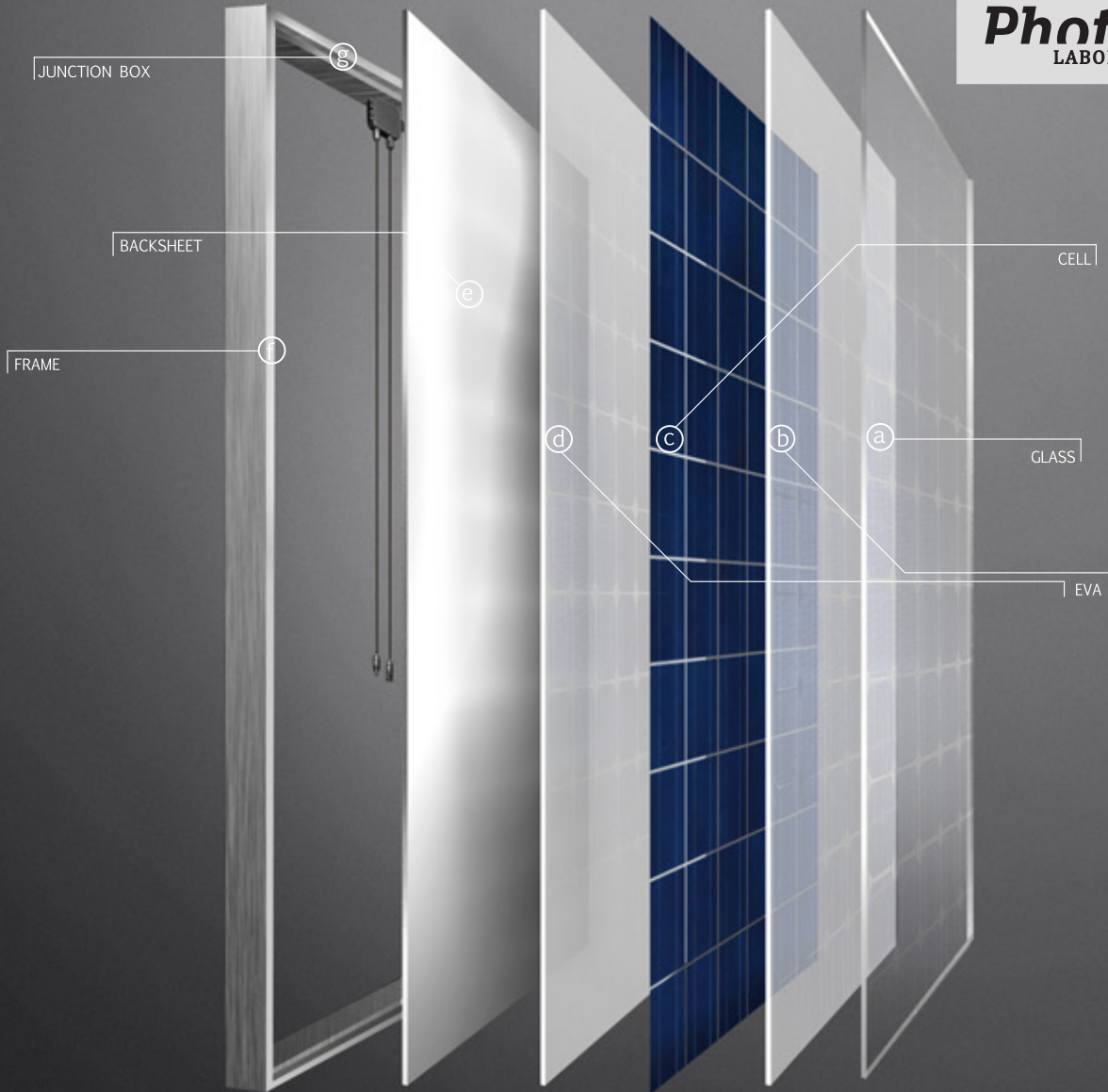


PRODUCT ADVANTAGES

DuraFlex™
Bankable
Photon
LABORATORY



WHAT.....

ⓐ GLASS

- High light transmission giving more electricity.
- Anti-Reflection glass optional
- Excellent mechanical loading performance (5400 Pascal)
- SPF-U1 certified

ⓑ BACKSHEET

- TEDLAR based encapsulation and protection
- Excellent adhesion and ultraviolet stability
- TUV/UL certified
- White/Black/Transparent optional

ⓒ JUNCTION BOX

- Reliable by-pass diodes assuring good product protection
- Locking connector working compatible worldwide
- Excellent heat emission performance
- IP65 or IP67 protection
- Fire test passed
- TUV/UL certified

ⓓ EVA

- High light transmission assuring better power performance
- High GEL and peeling strength guarantying strong encapsulation
- Good Ultraviolet aging resistance
- TUV/UL certified

ⓔ FRAME

- Anodized/ Electrochromic aluminum means durable protection from environment
- Unique designed profile ensuring strong mechanical loading performance
- Silver/Black color available

ⓕ CELL

- Excellent efficiency and long term reliability
- Good performance under high temperature and low irradiance conditions
- 100% In-line Electroluminescence (EL) tested
- Positive tolerance for each panel
- TUV certified

WHY.....

ⓐ Anti-reflective coating glass

- Nanometer technology
- Increase light transmission by up to 2% in normal irradiance
- Energy output increased up to 4% in the module efficiency
- Perfect coating uniformity
- Coating lifetime over 25 years
- Easy cleaning

ⓑ Full black series products

- 3M/FUJIFILM powered product
- Good aging resistance guarantying strong durability
- Excellent Yellowness resistance
- Various selection for different application

ⓒ Long-lasting performance

- excellent durability and aging resistance performance for 25 years
- high encapsulation performance
- Yellowness resistance

ⓓ Junction Box

- Excellent PPE material from Japan
- Top Polyamide 66 material
- Excellent industry design

ⓔ Extraordinary performance

- Salt mist and Ammonia corrosion resistant
- Regular and DURAFLEX optional
- Unique design to achieve 8000pa loading
- Easy installation and wide adaptation to current mounting system

ⓕ High quality cell

- Guarantee a better performance in weak light.
- 3-busbar cell technology reduces the series resistance and helps to boost the power output in the module
- Good PID performance



VPS MODULE

145W
6PD SERIES
135W~150W

High Performance
Solar Modules

DuraFlex™



Electrical Characteristics

	SRP-135-6PD	SRP-140-6PD	SRP-145-6PD	SRP-150-6PD	Unit
Rated Power at STC (Pmp)	135	140	145	150	W
Power Tolerance	(0,+4.99)	(0,+4.99)	(0,+4.99)	(0,+4.99)	W
Power Maximum at STC	139.99	144.99	149.99	154.99	W
Cell Efficiency (η_c)	15.9~16.5	16.5~17.1	17.1~17.7	17.7~18.2	%
Module Efficiency (η_m)	13.5~13.9	13.9~14.4	14.4~14.9	14.9~15.4	%
Open Circuit Voltage (Voc)	22.1	22.1	22.2	22.3	V
Short Circuit Current (Isc)	8.08	8.38	8.63	8.90	A
Maximum Power Voltage (Vmp)	17.8	17.8	17.9	18.0	V
Maximum Power Current (Imp)	7.57	7.85	8.08	8.33	A
Maximum System Voltage	1000 (TUV), 600 (UL)				V
Maximum Series Fuse Rating	15				A

STC: Irradiance 1000 W/m², module temperature 25°C, AM=1.5;
Power measurement tolerance: +/-3%

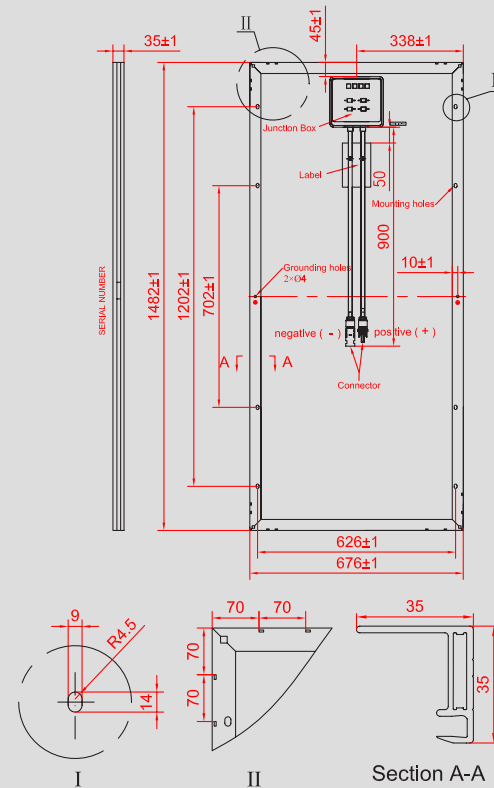
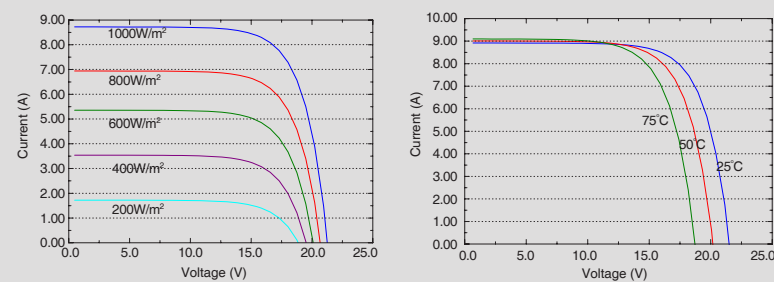
Temperature Characteristics

Pmax Temperature Coefficient	-0.47 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.04 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

Packing Configuration

Container	20'GP			40'GP			40'HC
Pieces per pallet	30	28	10	30	23	10	N.A
Pallets per container	12	4	8	28	4	16	N.A
Pieces per container	552			1092			N.A

Current-Voltage & Power-Voltage Curve (SRP-145-6PD)



* All Dimensions in mm
* The above drawing is a graphical representation of the product.

Mechanical Specifications

External Dimensions	1482 x 676 x 35 mm
Weight	12.0 kg
Solar Cells	Polycrystalline 156 x 156mm (36pcs)
Front glass	3.2 mm tempered glass, low iron
Frame	Anodized/ Electrophoretic aluminum alloy
Junction Box	IP65/IP67
Output Cables	4.0 mm ² , symmetrical lengths 900mm
Connector	MC4 Compatible
Maximum Snow Load	550kg/m ²
Maximum Wind Load	200km/h
Hailstone Impact Test	80km/h for 25mm ice ball

WARRANTY

- ✓ Positive tolerance guarantee for each panel
- ✓ 10 years guarantee on product material
- ✓ 12 years guarantee on 90% minimum output
- ✓ 25 years guarantee on 80% minimum output
- ✓ Product liability insurance with CHUBB Group
- ✓ Product performance (E&O) insurance CHUBB Group



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BEFORE & AFTER SERVICE

Before & After Service: Service is a continuation of sales progress. VMC is a professional provider of solar energy solutions, making progress in R&D, production, sales & after sales and striving to provide qualified products as well as professional service from enquiry to after sales:

- ✓ Regular sampling test by Photon Testing Laboratory to proven product performance and reliability
- ✓ Skilled engineers for technology consultation
- ✓ Tailored solution proposal design and project conduction
- ✓ Advanced ERP system allows customers to view the whole production procedure
- ✓ Local office for most efficiency support and online service system for customers

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