

**POLYCRYSTALLINE SILICON | PHOTOVOLTAIC MODULES**  
**40 W | 50 W | 75 W**



**About APS:**

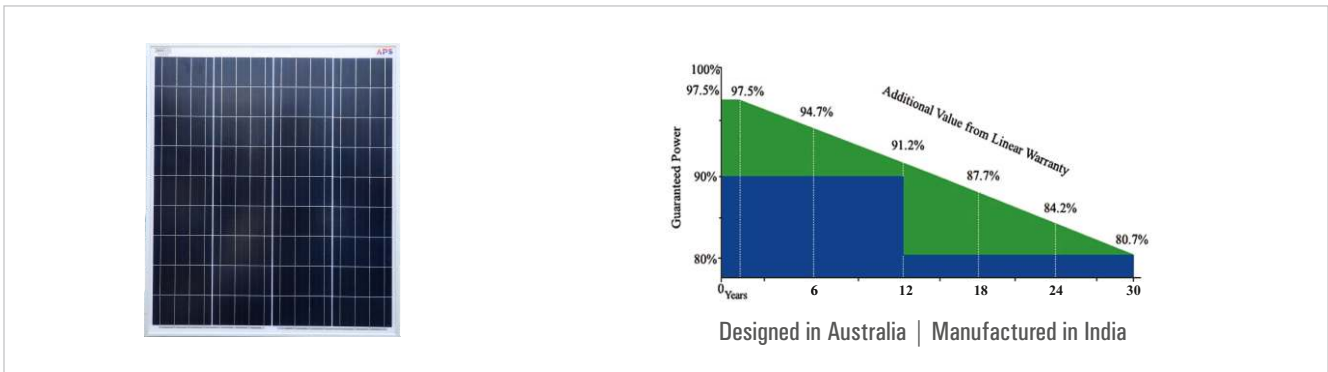
Australian Premium Solar (APS) is 100% Australian Owned managed and operated. APS supplies imported high quality renewable energy products Our solar panels are manufactured in accordance with APS’s high standards of design and Quality Control Which ensure higher PV energy yields.


APS opened an advanced facility in Queensland, Australia for research and development and local testing of solar panels. The 2000 sq. mtr. facility is staffed by qualified engineers, who are dedicated to exploring ways to achieve the continuous improvement of our solar cells and solar modules.


**12 Years Product Warranty\*** | **30 Years Performance Warranty\***


**91.2% Power Output Up To 12 Years** | **80.7% Power Output Up To 30 Years**


ISO 9001 : Quality Management System | CHUBB Insurance | PID Free





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Australian Brand Manufactured in accordance with APS’s high standards of design and Quality Control
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Excellent module efficiency Solar cell efficiency up to 21.2%  
Module efficiency up to 18%
- 

Positive tolerance Positive tolerance of up to 4% delivers higher output reliability for our all modules.
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High performance Higher PV Energy yields even under low light and cloudy conditions
- 

High Model Output Highest conversion efficiency
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Reliability Premium quality raw material and advanced manufacturing processes guarantees the reliability of our modules
- 

EL Tested (ELECTRO LUMINESCENCE) 100% EL double inspection
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PID resistant and free of snail trails  
Increased module robustness to minimize micro-cracks



# ELECTRICAL TYPICAL VALUES

Model	APSP6-40/36	APSP6-50/36	APSP6-75/36
Maximum Power (Pmax)	40 W	50 W	75 W
Voltage at max. power (Vmp)	17.89 V	18.39 V	18.53 V
Current at max. power (Imp)	2.28 A	2.75 A	4.32 A
Open Circuit Voltage (Voc)	21.15 V	21.71 V	21.85 V
Short Circuit Current (Isc)	2.42 A	2.92 A	4.58 A
Tolerance	Positive only	Positive only	Positive only
Module Efficiency	12.4%	12.86%	13.09%

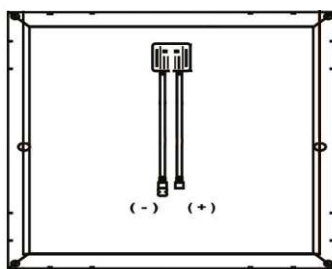
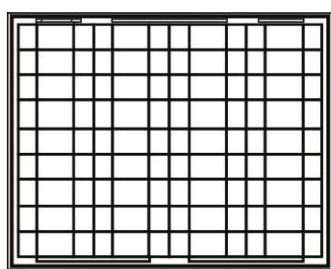
## MECHANICAL CHARACTERISTICS

External Dimensions	480 x 670 x 35 mm	580 x 670 x 35 mm	855 x 670 x 35 mm
Weight	4.7 kg	5 kg	7 kg

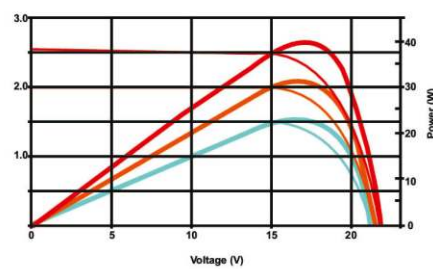
**NOTE : STC: Irradiance 1000W/m2 Module Temperature 25°C AM = 1.5**

TEMPERATURE CHARACTERISTICS		MODULE CHARACTERISTICS	
NOCT (Nominal Operation Temperature)	: 45 ± 2°C	Solar Cells	Poly
Temperature Coefficient of Voc (β)	: -0.35%/°C	No. of Cells	36 Cells(9*4)
Temperature Coefficient of Isc (α)	: +0.05%/°C	Glass	Low iron, tempered glass, 3.2mm
Temperature Coefficient of Pmax (γ)	: -0.45%/°C	Frame	Anodized aluminum alloy
<b>ABSOLUTE MAXIMUM RATING</b>		Junction Box	IP65/67 rated
Parameter	Values	Cable & Plug Connectors	Optional
Operating Temperature	From -40° to 85°	Maximum Snow Load	2400 Pascal
Maximum Series Fuse Rating	15 A	Maximum Wind Load	5400 Pascal
IEC Application Class	IEC 61215, IEC 61730, IEC 61701, IEC 62804	Hailstone Impact Test	80 km/h for 25mm ice ball
Maximum System Voltage	1000v (IEC 61215) 600v (UL 1703)		

### MODULE DIMENSION



### I-V CURVE



**Note:**

- The specifications in this datasheet are subject to change without any notice.
- The electrical data given here is for reference purpose only.
- Please contact our sales team for any customized solutions.
- Please read safety and installation instructions before using the product.
- Subject to Ahmedabad Jurisdiction.

**\*Warranty:**

Please read APS India warranty documents thoroughly on <http://australianpremiumsolar.co.in/warranty/>

**Toll Free:**  
**1800-313-5052**

**Corporate Office :**

**Australian Premium Solar (India) Pvt. Ltd.,**  
B-802, 8th Floor, Shapath Hexa, Nr. Sola Bridge,  
Opp. Gujarat High Court, S. G. Highway,  
Ahmedabad-380061. Gujarat (India).  
**M.:** +91-76220-23258  
**Email:** sales@australianpremiumsolar.co.in  
**Web:** www.australianpremiumsolar.co.in

**Factory-1:**

**Australian Premium Solar (India) Pvt. Ltd.,**  
Plot No. 143, Road No. 4A, GIDC-Kathwada,  
Ahmedabad-382430. Gujarat (India).

**Factory-2:**

**Australian Premium Solar (India) Pvt. Ltd.,**  
At & Post - Tajpur, N.H.-08, Ta - Prantij,  
Dist - Sabarkantha, Gujarat-383205 (India)

