

**For a Free Quote:**

**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

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**Email: [contact@energypal.com](mailto:contact@energypal.com)**

# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**PTP Energy Solutions**

**PT5M36-90W-120W**

**PT5M36-90W**

Also available on the web at  
[EnergyPal.com/ptp-energy-solutions-solar-panels/pt5m36-90w](http://EnergyPal.com/ptp-energy-solutions-solar-panels/pt5m36-90w)



**13.65-18.08%**  
MAXIMUM EFFICIENCY

**90-120W**  
POWER OUTPUT RANGE

**36 CELL**  
MONOCRYSTALLINE MODULE

**0~+5W**  
POSITIVE OUTPUT GUARANTEE



**Excellent low light performance on cloudy days, mornings and evenings**

- Anti-reflective coating



**Great aesthetics for residential applications**

- High efficiency, lower weight, Easy handling and optimum utilization of roof space



**Certified to withstand challenging environmental conditions**

- 2400 Pa wind load
- 5400 Pa snow load
- 35mm hail stone at 97 km/hr



**IP68 connectors enhance the reliability of the PV system**



**Blowing sand resistance certification**



Anti-PID



Fire test certification



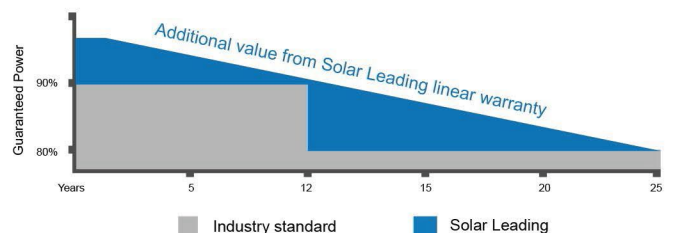
Ammonia corrosion certification



Salt mist corrosion certification

**LINEAR PERFORMANCE WARRANTY**

12 Year Product Warranty 25 Year Linear Power Warranty



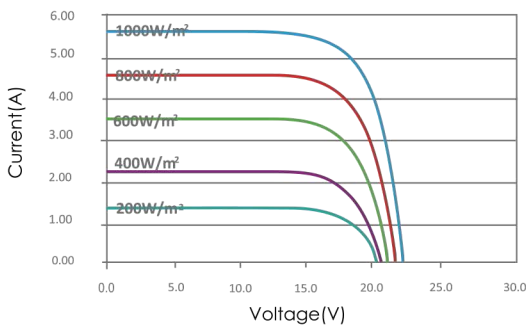
### Electrical Characteristics

Characteristics	Unit	PT5M36-90W	PT5M36-100W	PT5M36-110W	PT5M36-120W
Maximum Power (Pmax)	W	90	100	110	120
Power Tolerance	W	(0, +5)	(0, +5)	(0, +5)	(0, +5)
Maximum Power Voltage (Vmp)	V	18.0	18.0	18.0	18.0
Maximum Power Current (Imp)	A	5.00	5.56	5.56	6.67
Open Circuit Voltage (Voc)	V	22.46	21.60	21.60	21.60
Short Circuit Current (Isc)	A	5.38	6.01	6.01	7.34
Module Efficiency (ηm)	%	13.56	15.07	16.58	18.08
Dimension of module	mm	1200×553×35mm (47.2×21.8×1.4inch)			
Pmax Temperature Coefficient	%/C	-0.48			
Voc Temperature Coefficient	%/C	-0.35			
Isc Temperature Coefficient	%/C	+0.44			
Maximum System Voltage	VDC	1000(TUV);600(UL)			
Maximum Series Fuse Rating	A	15			
Operating Temperature	℃	-40~ +85			
<b>NOCT</b>	℃	45±2			

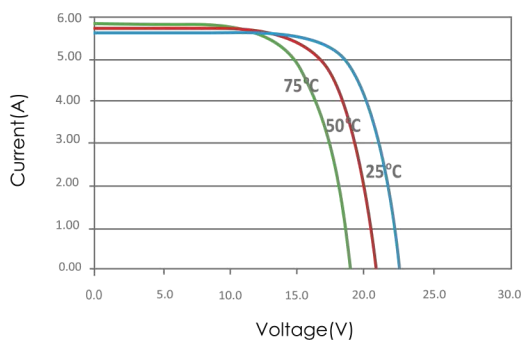
STC:1000W/m2.AM1.5 and 25 °C cell temperature: NOCT : Nominal Operating Cell Temperature

### I-V Curves

I-V Curves of PV Module SL5M36-90W (Cell Temp. 25 °C)

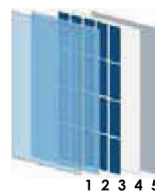
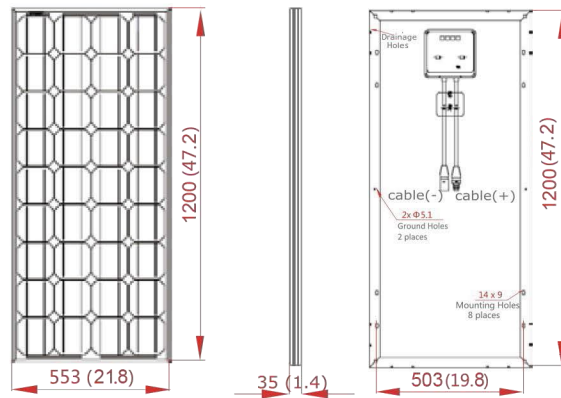


I-V Curves of PV Module SL5M36-90W at Different Cell Temp. (AM1.5, 1000W/m²)



### Physical Characteristics

Unit:mm(inch)



- 1. Tempered Glass
- 2. EVA(Ethylene Vinyl Acetate)
- 3. Solar Cells
- 4. EVA(Ethylene Vinyl Acetate)
- 5. Backsheet

Cell Type	125mm x125mm, Monocrystalline Silicon
No. of Cells	36pcs (4x9)
Dimension	1200x553x35mm (47.2x 21.8x1.4inch)
Weight	8.0kg (17.6lbs.)
Cable Length	900mm (35.4inch)
Bypass Diodes	6/6pcs
Junction Box	IP65/IP68
Front Glass	3.2mm (0.1inch) tempered low-iron glass
Frame	Anodized aluminum alloy

\* Specifications are subjected to change without further notice