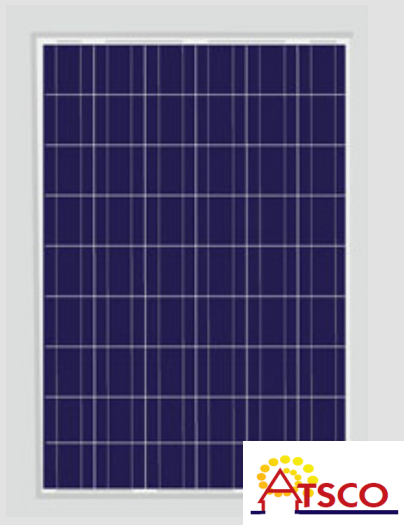


Serial No	Cell Type	Serial No	Cell Type	Serial No	Cell Type
ATSCOP36GW-10W	Polycrystalline	ATSCOP36GW-110W	Polycrystalline	ATSCOP54GW-210W	Polycrystalline
ATSCOP36GW-20W	Polycrystalline	ATSCOP36GW-120W	Polycrystalline	ATSCOP54GW-220W	Polycrystalline
ATSCOP42GW-40W	Polycrystalline	ATSCOP36GW-130W	Polycrystalline	ATSCOP60GW-240W	Polycrystalline
ATSCOP42GW-50W	Polycrystalline	ATSCOP36GW-140W	Polycrystalline	ATSCOP60GW-250W	Polycrystalline
ATSCOP40GW-70W	Polycrystalline	ATSCOP36GW-150W	Polycrystalline	ATSCOP72GW-290W	Polycrystalline
ATSCOP40GW-80W	Polycrystalline	ATSCOP54GW-170W	Polycrystalline	ATSCOP72GW-300W	Polycrystalline
ATSCOP40GW-90W	Polycrystalline	ATSCOP54GW-180W	Polycrystalline		

ATSCO Photovoltaic Solar Panels are produced not only with the well quality European cells which provides high performance and high efficiency but also by the materials with high reliability which acquired completely from especially good producer.








Product Warranties

- 25 years limited warranty of 80% power output, 10 years limited warranty of 90 % power output and 2 years limited warranty of materials and workmanship against the corrosion and UV lights
- Long term operating life
- Manufactured ISO 9001-2008 (Quality Management System) certified factory and under warranty of IEC standard, TSE Certificate and CE Marking

Product Characteristics

- All the components used in our panels are manufactured and supplied from our quality driven European partners.
- All recommended product tests have been carried out.
- Our panels are manufactured to guarantee the highest degree of efficiency.
- Hybrid lamination operation guarantees that the same heat is implicated on panel.
- For resistance of high voltage advanced level of EVA covering system is used and the most strict security conditions are created.
- Anodized Aluminum Alloy Frame system ensures the assembly of modules on very hard systems and provides the durability against difficult conditions.
- Ultra reliable bypass diodes prevent from the damage caused by overheat of damaged or blackened cells.
- Maximum mechanic resistance 5.400 N/m²
- Special tempered and hardened low iron 3.2 mm glass is used and the glass is laboratory tested for toughness.
- Every solar panel has its own unique identity number ensuring traceability in every step of production.

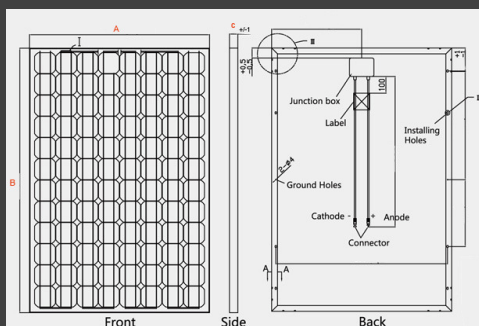
Warranties	
ISO 9001:2008 Certificate	
Preparation for IEC 61215 Edition II	
CE Marking (Low Voltage Directive)	
TSE Certificate	
Protection Safety Class II	

TECHNICAL DATASHEET

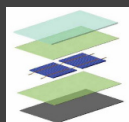
	10Wp	20Wp	40Wp	50Wp	70Wp	80Wp	90Wp	110Wp	120Wp	130Wp	140Wp	150Wp	170Wp	180Wp	210Wp	220Wp	240Wp	250Wp	280Wp	300Wp	
Electrical Characteristics at STC	STC Power Rating	10W/12V	20W/12V	40W/12V	50W/12V	70W/12V	80W/12V	90W/12V	110W/12V	120W/12V	130W/12V	140W/12V	150W/12V	170W/24V	180W/24V	210W/24V	220W/24V	240W/24V	250W/24V	280W/24V	300W/24V
	Maximum Power Voltage (Pmpp)	17.8V	17.6V	18.0V	18.2V	18.0V	18.2V	18.3V	17.8V	18.0V	18.3V	17.9V	18.2V	26.7V	26.9V	26.7V	28.2V	29.7V	29.9V	35.5V	36.7V
	Maximum Power Current (Ipm)	0.56A	1.14A	2.22A	2.75A	3.9A	4.54A	4.91A	6.20A	6.7A	7.10A	7.82A	8.3A	6.37A	6.69A	7.87A	7.80A	8.08A	8.36A	7.89A	8.17A
	Open Circuit Voltage (Voc)	22.3V	22.5V	22.5V	22.7V	22.0V	22.3V	22.4V	22.3V	22.5V	22.8V	22.6V	22.9V	33.2V	33.2V	33.5V	33.7V	37.2V	37.4V	44.1V	45.2V
	Short Circuit Current (Isc)	0.63A	1.31A	2.65A	2.75A	5.10A	5.2A	5.3A	7.25A	7.54A	8.06A	7.6A	7.9A	7.8A	7.9A	8.1A	8.2A	8.5A	8.6A	8.0A	8.2A
	Max. System Voltage	DC 715V	DC 715V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V	DC 1000V
	Safety Class	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
	Measuring Tolerance	±3	±3	±3	±3	±5	±5	±5	±5	±5	±5	±5	±5	±5	±5	±5	±5	±5	±5	±5	±5
Mechanical Characteristics	Cell Type	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly	Poly
	Cell Quantity	36 (4x9)	36 (4x9)	42 (6x7)	42 (6x7)	40 (4x10)	40 (4x10)	40 (4x10)	36 (4x9)	36 (4x9)	36 (4x9)	36 (4x9)	36 (4x9)	54 (6x9)	54 (6x9)	54 (6x9)	54 (6x9)	60 (6x10)	60 (6x10)	72 (6x12)	72 (6x12)
	Module Dimension	246x353 mm	349x490 mm	513x613 mm	513x613 mm	665x853 mm	665x853 mm	665x853 mm	675x1329 mm	675x1329 mm	675x1329 mm	679x1485 mm	679x1485 mm	995x1178 mm	995x1178 mm	995x1490 mm	995x1490 mm	995x1648 mm	995x1648 mm	995x1964 mm	995x1964 mm
	Module Weight	1,5 Kg	2,5 Kg	5,5 Kg	5,5 Kg	7,5 Kg	7,5 Kg	7,5 Kg	12 Kg	12 Kg	12 Kg	13,5 Kg	13,5 Kg	15,6 Kg	15,6 Kg	18 Kg	18 Kg	23 Kg	23 Kg	25 Kg	25 Kg
	Operation Temperature	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C	-40 °C ...+80 °C
	Maksimum Strength	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²	5.400 N/m ²
Temp. Characteristics	Power Temperature Coefficient (%/K)	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	-0.5 ±0.05	
	Current Temperature Coefficient Isc (%/ K)	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	+0.053 ±0.01	
	Voltage Temperature Coefficient (mV/ K)	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10	-78 ±10

[STC- Standard Test Conditions : Spectrum Am. 1,5 irradiance 1000W/m² - Module Temperature 25 °C at air mass]

Drawings



Module



Glass
EVA
Cell
EVA

Characteristic Graphs

