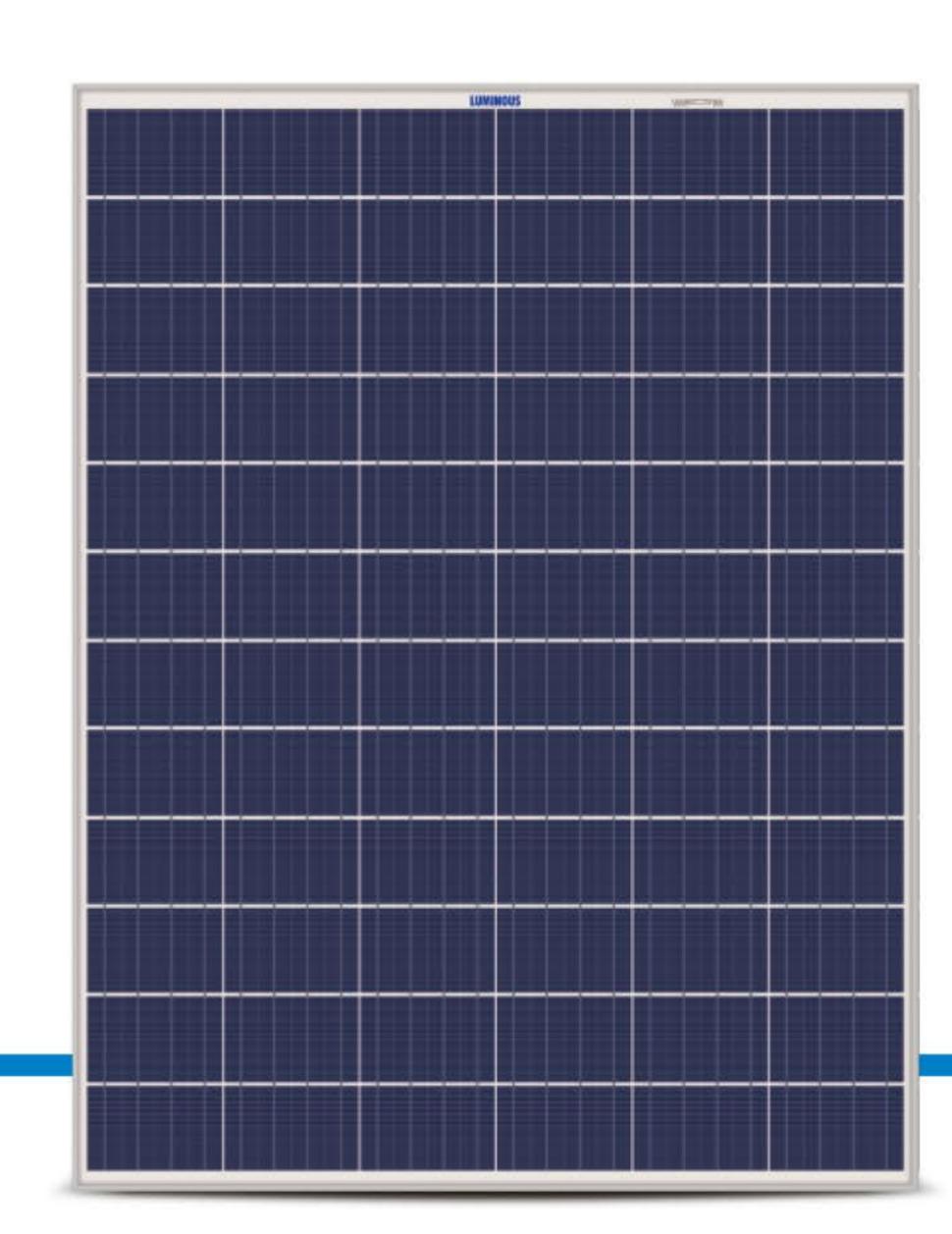
LUMINOUS



Luminous has both Monocrystalline and Polycrystalline PV modules with performance warranty of up to 25 Yrs. They are certified for compliance to IEC standard

Range available with us are from 10 Watt to 325 Watt catering to wide range of applications from rural to urban projects.

Solar Panel

Two common types of PV Panels are:

Polycrystalline Cell Type

Polycrystalline Cells are effectively a slice cut from a block of silicon, consisting of a large number of crystals. They have a speckled reflective appearance and you can see the thickness of the slice. These cells are less expensive to produce and more suited for Indian conditions.

Monocrystalline Cell Type

Monocrystalline Cells are cut from a single crystal of silicon. In appearance, they will have a smooth texture and you will be able to see the thickness of the slice. These are slightly expensive to produce.





Features	Benefits
Best in class conversion efficiency	Higher cell efficiency means optimum output
nti reflective coating and back surface field (BSF)	More light absorption
Optically, mechanically and electrically tested	Frame reduces resistance and thus improves cell efficiency
Advance EVA encapsulation	Multi layer encapsulation provides better module protection
Strong light weight Aluminum frame design	Offers high torsion resistance against wind load and snow loads
Compliance to IEC standards	Consumers can have confidence that the product is safe, reliable and
IEC 61215 & 61730	of good quality

Technical Specifications of Poly PV Panels (Suitable for 12V System) Wattage, Voltage at Max Open Circuit Current at Short Circuit

Model	Wattage, Wp	Voltage at Max Power, Vmax (V)	Open Circuit Voltage Voc (V)	Current at Max, Power imax (A)	Short Circuit Current isc (A)	Dimensions (mm) LxWxT
12V 10W	10	17.8	21.8	0.57	0.61	340x280x22
12V 20W	20	17.8	21.8	1.13	1.2	535x380x22
12V 37W	37	18.1	21.8	2.05	2.22	435x670x34
12V 40W	40	18.2	22	2.2	2.4	485x670x34
12V 60W	60	18.2	22	3.3	3.55	635x670x34
12V 75W	75	18.2	22	4.13	4.45	785x670x34
12V 80W	80	18.2	22	4.45	4.62	935x670x34
12V 100W	100	18.2	22	5.5	5.92	1035x670x34
12V 125W	125	18.2	22.1	6.98	7.4	1265x670x34
12V 150W	150	18.3	22	8.2	8.9	1480x680x34
12V 200W	200	18.0	22	11.12	12.12	1321x991x34

Technical Specifications of Poly PV Panels (Suitable for 24V System)

Model No.	Wattage Wp	Voltage at Max Power, Vmax	Open Circuit Voltage, Voc	Current at Max Power, Imax	Short Circuit, Isc	Module Efficiency (%)	Number of Cells
LUM-200	200	29.00	36.20	6.89	7.47	14.02	60
LUM-250	250	30.20	37.42	8.31	8.85	15.60	(LUM-230 to LUM-260)
LUM-24250	250	36.3	43.90	6.88	7.51	14.65	
LUM-24300	300	35.90	44.50	8.36	8.83	15.50	72
LUM-24305	305	36.20	44.70	8.43	8.89	15.75	(LUM-24285 to LUM-24305)
LUM-24320	320	38.95	46.08	8.22	8.96	3 1.51 8	

Technical Specifications of Mono PV Panels

Model	Wattage, Wp	Voltage at Max Power, Vmax (V)	Open Circuit Voltage Voc (V)	Current at Max, Power imax (A)	Short Circuit Current isc (A)	Dimensions (mm) LxWxT
12V 5W	5	18	22.5	0.29	0.31	320x180x22
12V 20W	20	18	22.5	1.15	1.23	480x340x22
12V 125W	125	18	23.1	6.88	7.1	1265x670x34
12V 150W	150	18	23.2	8.0	8.55	1480x680x34

Data at standard test conditions (STC) Power Tolerance : 0/+5%

"STC (1000W/m²), AM1.5, cell temperature 25 $^{\circ}$ C". Best in class AAA Solar Simulator (IEC60904-9) used. Power measurement accuracy: $\pm 3\%$

For more than 24V systems, you may connect multiple panels in series to achieve desired system voltage.

