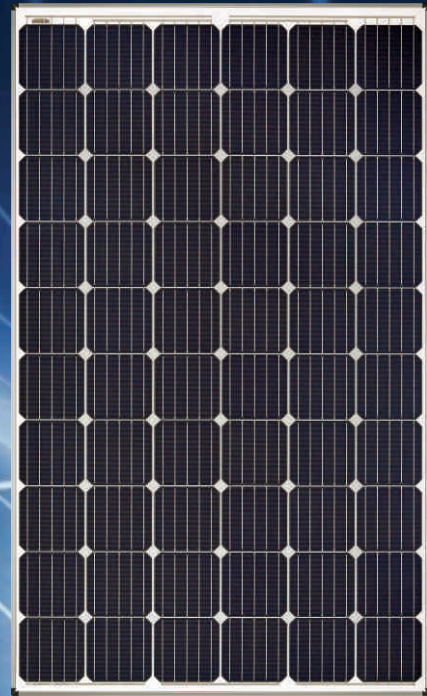


Elson

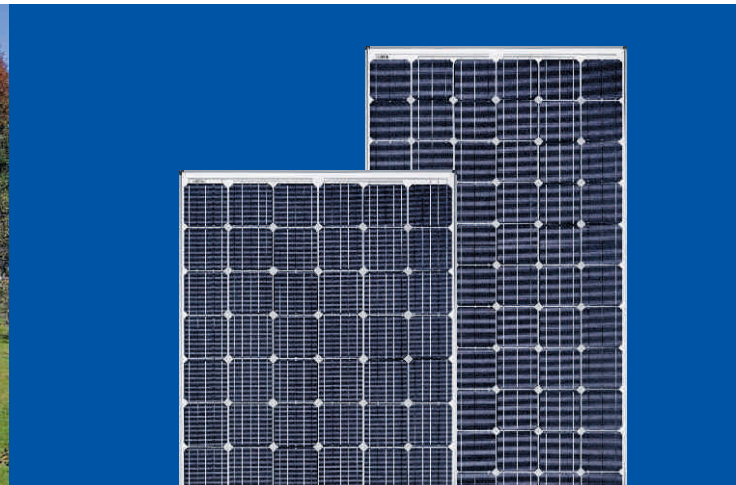
SOLAR PV MODULE

Monocrystalline Dual Glass Module
(Range 50Wp-410Wp)

HIGHLY
RELIABLE &
EFFICIENT



Elson solar panels are manufactured under controlled conditions with rigorous tests to ensure performance and rated performance over rated life. We use high efficiency polycrystalline silicon cells and the latest in bonding techniques to interconnect cells followed by vacuum sealing and affixing to frames resulting in compact construction, space savings with corresponding higher output of power.



Salient Features

- High efficiency monocrystalline silicon solar cells connected in series.
- Lamination using TEDLAR, crane glass and EVA provides environmental protection.
- Solar cells laminated between UV resistant polymer (EVA) and high transmission toughened glass surface.
- Rugged weather-proof nylon terminal box for output connections.
- Anodized aluminum frame provides structural support for mounting and shock resistance.
- Manufactured to stringent quality standards and tested to withstand adverse environmental conditions.

Applications

- Domestic lighting systems • Street Lighting • Water pumping • Battery charging • Community TV system • Microwave repeater station
- Railway signaling and lighting systems • Rural radio phones and exchanges • Offshore platforms • Desalination Plants • Cathodic protection systems
- Portable lantern • Power pack for village electrification • Crop sprayer • Sign boards & glow signs

Technical Specification of Solar Panels

1	Power (Pm) in Watts (nominal)	100 (0±3%)	150 (0~+3%)	250 (0~+3%)	300 (0~+3%)
2	Open Circuit Voltage (Voc) in Volts	22	22	44.5	44.5
3	Short Circuit Current (Isc) in Amps	6	8.8	8.7	8.7
4	Voltage at Maximum Power (Vmp) in Volts	18	18	36	36
5	Current at Maximum Power (Imp) in Amps	5.55	8.33	8.2	8.2
6	Maximum System Voltage 1000V 1000V	1000V	1000V	1000V	1000V
7	Solar Cells per Module (Units)	36	36	60 & 72	60& 72
8	Length x Width x Thickness (L x W x T) mm	100x665x35	1480X665X35	1645X990X35	1745X990X35
9	Weight – Kg	9	12.5	18	22
10	9 Mounting Holes Pitch (Y) – mm 510 510	510	740	1000	1000
11	Mounting Holes Pitch (X) – mm	633	633	958	1159
12	Area – Sq. M	0.68	0.98	1.63	1.89
13	Junction Box	3T/2T	3T	IP65 4T With Play & Plug connectors	IP65 4T With Play & Plug connectors

*All electrical parameters specified at STC: 25°C cell temperature; 1000W/M² irradiance; AM 1.5

Glass : Tempered & Low Iron

Encapsulate: Ethylene Vinyl Acetate

Frame: Anodized Aluminum

Junction Box : Weather Proof Nylon 6

*Technical Specifications can be changed without prior notice.