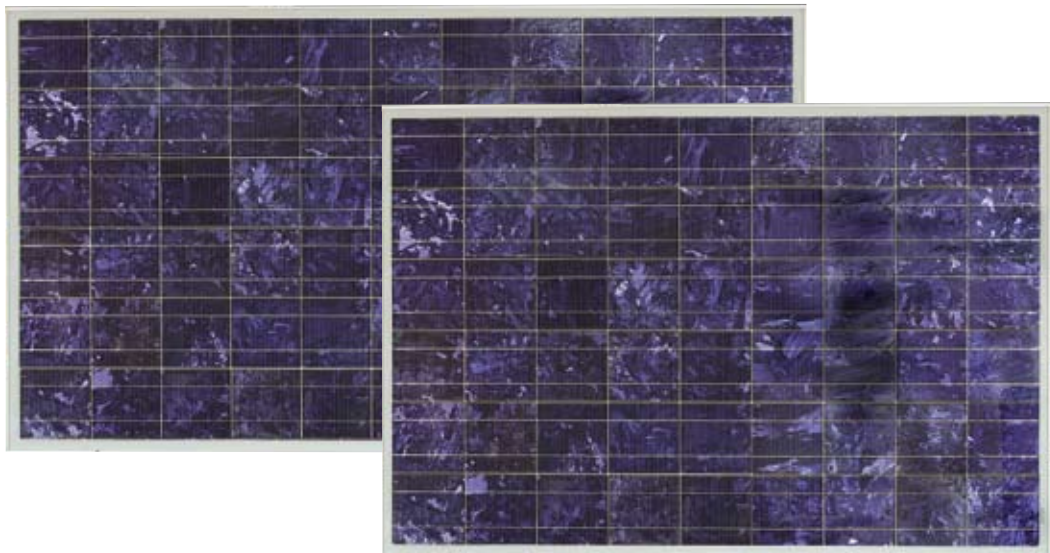


PV Modules

Grid Connected Applications

The modules specified overleaf are for battery charging applications. This makes them suitable for medium to large domestic use, mobile caravans etc. These would be 12V applications ranging from 40W to 135W

- Quality, Protective Design
- Rugged Junction Box
- Robust for Extreme Conditions
- Long Term Performance Warranties



Silicon CPV plc – PV Modules

Silicon CPV plc's range of quality flat-plate PV modules is manufactured at the Company's state-of-the-art production facility in Pakistan. The modules utilize Polycrystalline Silicon Cells and provide an energy conversion efficiency of up to 16%.

Superior by Design

The PV modules employ Glass-Tedlar technology. The Polycrystalline Silicon cells are embedded in flexible transparent EVA to resist UV and protect the cells from etching, ensuring superb reliability whatever the operating climate. The modules are protected by highly transparent tempered glass to provide excellent protection against adverse environmental conditions such as rain, snow, hail, ice and storms. The back of the module is sealed with high quality Tedlar and the entire laminate is installed within an anodized aluminium frame to provide structural strength and ease of installation. Holes in the hollow section prevent the build up of condensation and damage to the frame from freezing.

Electrical Connections

Electrical connection to the PV module is made via a highly durable, patented junction box. It has a dust proof and splash proof housing using securely welded joints which protect against moisture ingress and corrosion. Its excellent capacity to dissipate heat results in a lower operating temperature for improved reliability.

Durability and Reliability

Silicon CPV plc's modules were designed to provide very long term durability with built in reliability and comply with the requirements of IEC 61215 which defines the capability of a PV module to withstand prolonged exposure within a number of defined climatic environments (specified in the standard).

Quality

Quality is a core value of Silicon CPV plc and all PV modules are manufactured under the control of the Company Quality Assurance system. The QA system includes specific QC procedures which ensure that the modules are manufactured to meet the stringent testing requirements defined by the Company and the appropriate parts of IEC 61215 and IEC 61730

Performance Warranties

Silicon CPV plc has such trust in its products that it expects them to operate continuously for many years and therefore confidently provides a 25 year power output warranty and a 2 year workmanship warranty.

Recyclable

Silicon CPV plc's PV products can be recycled at the end of their natural life. The Company will be happy to discuss your recycling requirements at any time.

Specifications

		P200-27	P210-27	P220-30	P230-30	P240-33	P250-33
ELECTRICAL							
Maximum Power	Pmax	200W	210W	220W	230W	240W	250W
Open Circuit Voltage	Voc	33.05V	33.15V	36.72V	36.84V	40.40V	40.48V
Max Power Point Voltage	Vmpp	26.14V	26.33V	29.05V	29.15V	32.2V	32.60V
Short Circuit Current	Isc	8.12A	8.22A	8.08A	8.23V	7.96A	8.15A
Max Power Point Current	Imp	7.65A	8.01A	7.57A	7.91A	7.45A	7.67A
Cells per module		54	54	60	60	66	66
Cell Type		Polycrystalline	Polycrystalline	Polycrystalline	Polycrystalline	Polycrystalline	Polycrystalline
DIMENSIONS							
CELL (L) x (W)	cm	15.6 x 15.6	15.6 x 15.6	15.6 x 15.6	15.6 x 15.6	15.6 x 15.6	15.6 x 15.6
MODULE (L) x (W) x (D)	cm	145.5 x 96.5 x 3.4	145.5 x 96.5 x 3.4	162.5 x 98.5 x 3.4	162.5 x 98.5 x 3.4	176.5 x 96.5 x 3.4	176.5 x 96.5 x 3.4
Module Weight	kg	18	18	20	20	22	22

MECHANICAL	
Frame:	Aluminium
Front	Tempered Glass
Back	Tedlar
Cell Encapsulation	EVA
Junction Box	PPE- IP65
Connector	MC Type 4
TEMPERATURE COEFFICIENT	
Current Temperature Coefficient	+4.40 mA/K
Power Temperature Coefficient	-0.46 %/K
NOCT Normal Operating Cell Temperature	48°C ± 2°C
Power Tolerance	±3%
Maximum System Voltage	1,000V DC

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