



CITIZEN SOLAR
solarising the nation

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GREEN ENERGY

KEY FEATURES



5BB Solar Cell design to improve the module efficiency and give a better aesthetic appearance.



Excellent module efficiency up to 17.00% achieved through advanced manufacturing capabilities and technology.



ARC Coated and high transmission glass features that directs more light on module resulting higher energy output.



Robust aluminum frame, ensure the modules to withstand wind load up to 2400 Pa. & heavy snow load up to 5400 Pa.



Positive power tolerance of up to +3% extra output.



High PID resistant, advance technology & qualified material leads to high resistant to PID.



Ip68 junction box for long-term weather endurance.



Low degradation and excellent performance under low light condition and with standing to harsh environment.



CSPL 36 CELL MODULE TYPE : CSPL 10-150 Watt

TECHNICAL DATA

Module Type	CSPL10	CSPL20	CSPL40	CSPL50	CSPL60	CSPL75	CSPL100	CSPL150
Peak Power Watts (Pmax)	10W	20W	40W	50W	60W	75W	100W	150W
Maximum Power Voltage (Vmp)	17.85	17.15	17.84	17.89	18.04	17.99	17.99	17.85
Maximum Power Current (Imp)	0.62	1.18	2.25	2.8	3.33	4.17	5.57	8.41
Open-circuit Voltage (Voc)	21.65	21.44	21.95	21.77	21.66	22.12	21.84	22.58
Short-circuit Current (Isc) (A)	0.69	1.27	2.44	3.04	3.67	4.49	6.11	8.7
Module Efficiency STC (%)	9.24	12.25	13.07	13.55	14.21	14.74	13.67	15.19
Operating Temperature (°C)	-40°C+85°C							
Maximum system Voltage	1000V DC (IEC)							
Maximum Series Fuse Rating	15A							

Temperature Characteristics (TC) and Permission Operating Conditions

Specification	Data
Tc of Open Circuit Voltage (B)	-0.35± 0.01% /°C
Tc of Short Circuit Current (a)	0.50 ± 0.02% /°C
Tc Power (Y)	-0.04 ± 0.02% /°C
Maximum System Voltage	1000 V (TUV)
NOCT	45°C ± 2°C
Temperature Range	-40°C to 85°C

Mechinal Data

Specification	Data							
Cell Arrangement	36Cells (9x4)							
Dimensions : Length (mm)	286	486	476	576	666	806	1091	1481
Dimensions : Width (mm)	351	351	661	661	661	661	661	661
Dimensions : Height (mm)	18	18	34	34	34	34	34	34
Weight (Kg)	1.5	2.0	3.9	4.6	5.2	6.2	8.10	11.3Kg
Front Cover	3.2mm Glass							
Encapsulate (material)	Enthylene Vinyl acetate (EVA)							
Frame Material	Anodized Aluminum Alloy							
Junction Box	IP 65 OR IP 67							
Product Warranty	5 Years							

Subject to errors and technical modifications within the scope of product improvement.

QUALITY ASSURANCE

- ☀ High quality control standards.
- ☀ High quality Component from International Supplier.
- ☀ Enhanced reliability through use of distinctive encapsulate and back sheet.
- ☀ PID free modules (85°C / 85RH for 288hrs).
- ☀ Optimized edge clearance for high quality rugged design.
- ☀ 2x100 % Electro luminescence checking to ensure defect free modules.
- ☀ 100%In-line hi-pot testing (H.V+GB+IR).
- ☀ High FF for improved energy conversion efficiency.
- ☀ Torsion and corrosion resistant with anodized aluminum frame.
- ☀ Unique design of back-sheet for high resistance to moisture ingress.



Applications



On Grid Solar System



Solar Water Pump



Off Grid Solar System



Solar Water Heater



Solar Street Lights



Solar EPC

COMPREHENSIVE PRODUCTS & SYSTEM CERTIFICATES

- ☀ IS 14286/61730-1/61730-2/62804
- ☀ ISO 9001: 2015 Quality Management System
- ☀ ISO 14001: 2015 Environmental Management System
- ☀ OHSAS 18001: 2007 Occupation Health and Safety Management System

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CAUTION : READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.
Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order.

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