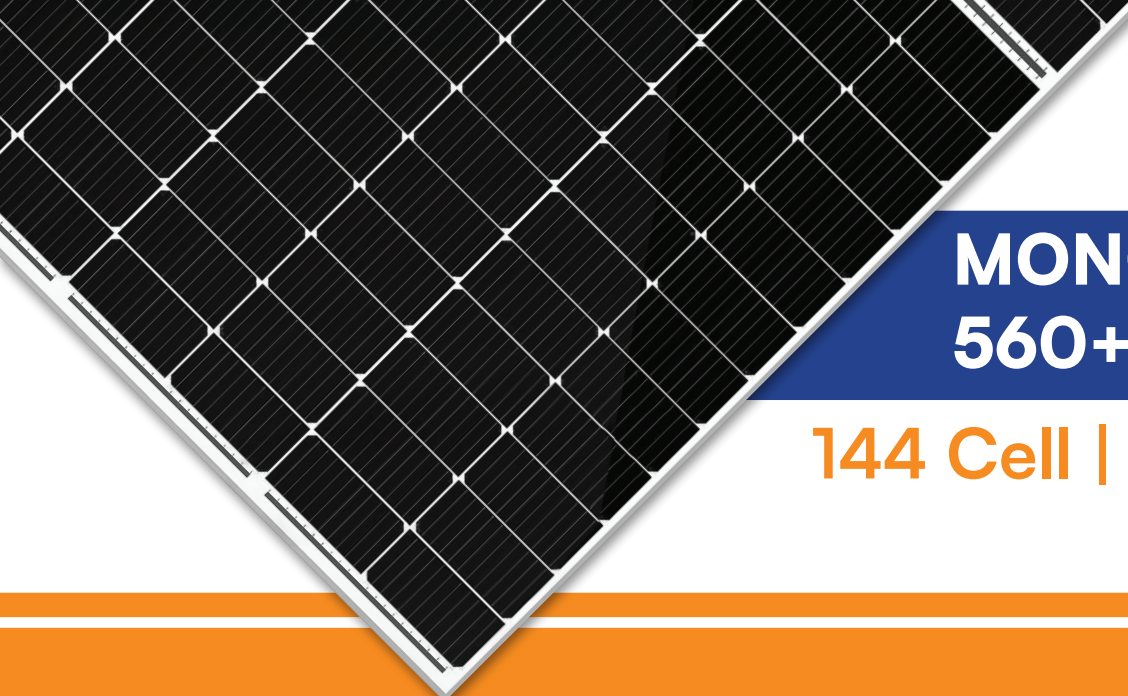




**Own
Your
Power**

Mono Perc Half Cut Module

520wp to 560wp



MONO PERC 560+W_p

144 Cell | 10 BB Cell

Mono PERC Half-Cut Modules

Designed to deliver consistent performance, Citizen Solar Mono PERC Half-Cut Modules combine up to 21.70% efficiency with advanced half-cut cell technology for higher energy generation and enhanced reliability. With low degradation, excellent PID/LID resistance, and the ability to withstand extreme weather conditions, they provide dependable power generation and lasting value for over 30 years.

- 21.70%+ Module Efficiency
- 0~+5W Positive Power Tolerance
- 30-Year Performance Warranty
- 12-Year Product Warranty
- PID/LID Resistant
- MNRE ALMM Approved



Ideal For Large
Scale Installations



High
Power



Better Shading
Tolerance



Lower LCOE
& System Cost



Excellent Temperature
Performance

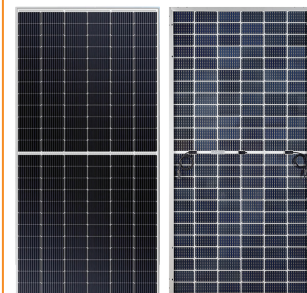


Non-Destructive
Cutting

TECHNICAL DATA

Electrical Data: All Data refers to STC (1000W/m², AM1.5G, 25°C)

Product Model Number	CSPL-144MHC-WF-520	CSPL-144MHC-WF-525	CSPL-144MHC-WF-530	CSPL-144MHC-WF-535	CSPL-144MHC-WF-540	CSPL-144MHC-WF-545	CSPL-144MHC-WF-550	CSPL-144MHC-WF-555	CSPL-144MHC-WF-560
	CSPL-144MHC-TF-520	CSPL-144MHC-TF-525	CSPL-144MHC-TF-530	CSPL-144MHC-TF-535	CSPL-144MHC-TF-540	CSPL-144MHC-TF-545	CSPL-144MHC-TF-550	CSPL-144MHC-TF-555	CSPL-144MHC-TF-560
Nominal Wattage (Pmax) Wp	520	525	530	535	540	545	550	555	560
No's of Cut Cells	144	144	144	144	144	144	144	144	144
Matrix Configuration	12×6 II 12×6	12×6 II 12×6	12×6 II 12×6	12×6 II 12×6	12×6 II 12×6	12×6 II 12×6	12×6 II 12×6	12×6 II 12×6	12×6 II 12×6
Maximum Voltage (Vmp) V	41.14	41.29	41.45	41.60	41.75	41.90	41.95	42.10	42.25
Open Circuit Voltage (Voc) V	49.01	49.16	49.31	49.46	49.61	49.76	49.80	49.95	50.10
Maximum Current (Imp) A	12.65	12.73	12.80	12.88	12.95	13.02	13.12	13.19	13.26
Short Circuit Current (Isc) A	13.55	13.63	13.69	13.76	13.83	13.90	13.98	14.04	14.10
Fill Factor (F.F.) in %	78.37	78.45	78.60	78.61	78.71	78.80	79.00	79.15	79.28
Module Efficiency (%)	20.14	20.33	20.53	20.72	20.91	21.11	21.30	21.5	21.7
Power Tolerance	0~+5Wp	0~+5Wp	0~+5Wp	0~+5Wp	0~+5Wp	0~+5Wp	0~+5Wp	0~+5Wp	0~+5Wp



STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5G spectrum according to EN 60904-3
Average relative efficiency reduction of <5% at 200W/m² according to EN 60904-1

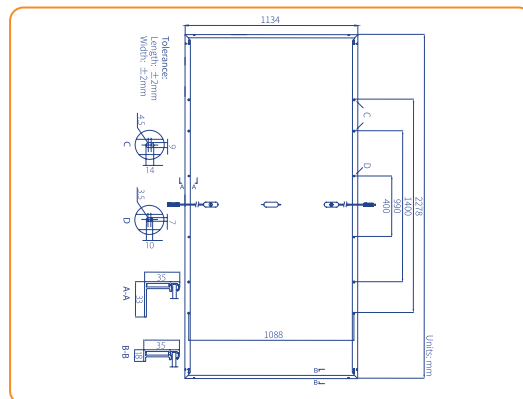
ELECTRICAL PARAMETERS AT NOCT

Maximum Power Pmax (Wp)	388.20	393.20	397.50	401.30	405.00	408.80	411.10	414.80	418.60
Maximum Power Voltage (V)	38.09	38.29	38.48	38.68	38.79	38.80	38.97	39.11	39.25
Maximum Power Current (A)	10.15	10.27	10.33	10.39	10.46	10.53	10.56	10.61	10.67
Open Circuit Voltage Voc (V)	45.75	45.94	46.17	46.41	46.54	46.49	46.82	46.97	47.11
Short Circuit Current Isc (A)	10.68	10.78	10.85	10.91	10.98	11.08	11.31	11.35	11.40

NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

TEMPERATURE COEFFICIENTS (TC) PERMISSIBLE OPERATING CONDITIONS

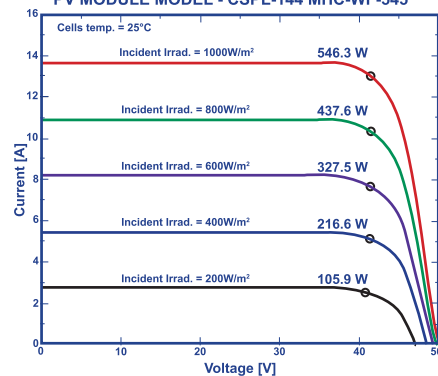
Maximum Series Fuse Ratings	25A
Maximum System Voltage	DC1500V (IEC/UL)



MECHANICAL SPECIFICATIONS

Length × Width × Height (in mm)	2278 × 1134 × 35 (±1.5 mm)
Weight	28 kg
Split Type Junction Box	IP68 Rated With 3 Bypass Diodes
Cable & Connectors	4 sqmm (12AWG) Solar Cable 300 mm × 2 nos black MC4 Compatible Connectors
Application Class	Class A (Safety Class II)
Substrate (Glass)	High Transmission, Low Iron, Tempered Glass, AR Coated
Solar Cells & Orientation	144 No's Half Cut Mono PERC Solar Cells
Cells Encapsulant	EVA (Ethylene Vinyl Acetate)
Back Sheet	Composite Film — White / Transparent
Frame	Silver Anodized Aluminium Frame With Twin Wall Profile
Mechanical Load Test	Sustain Heavy Wind & Snow Load (2400Pa & 5400Pa or 550Kg/m ²) Maximum Diameter of 24 mm With Hail Impact of 83 Km/h

I-V CHARACTERISTICS AT DIFFERENT IRRIDANCE
PV MODULE MODEL - CSPL-144 MHC-WF-545



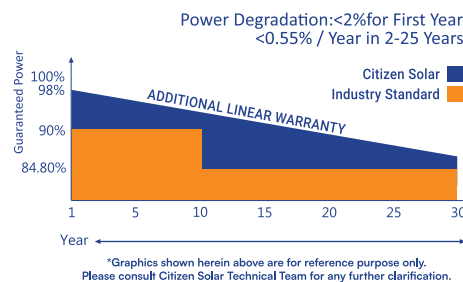
WARRANTY AND CERTIFICATIONS

Performance Warranty**	Linear Power Warranty for 30 years, 90% for 12 years and 80% for 30 years.
Approvals & Certificates	Products: IS:14286 / IEC:61215:2005-ED2, IEC:61730-Ed.1 & ED.2

STACKING STANDARD

	No. of Modules	No. of Pallets	Modules Per Pallet / Pallet Weight	Pallet Dimensions
19FT	224 Nos.	8 Pallets	28 Nos. / 850 Kgs.	2300 × 1010 × 1300
32FT	336 Nos.	12 Pallets	28 Nos. / 850 Kgs.	2300 × 1010 × 1300
40FT	616 Nos.	22 Pallets	28 Nos. / 850 Kgs.	2300 × 1010 × 1300
20 GP Container	310 Nos.	10 Pallets	31 Nos. / 945 Kgs.	2300 × 1010 × 1300
40 HC Container	620 Nos.	20 Pallets	31 Nos. / 945 Kgs.	2300 × 1010 × 1300

LINEAR GRAPH





Scan for Website



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