



CITIZEN SOLAR
solarising the nation

arrow
SERIES

72 Cell | 5 BB Cell

Mono Crystalline PERC Module

380wp to 400wp



Ideal For Large Scale Installations



High Power



Modules binned by current to improve system performance



Excellent Glass Efficiency with anti reflective coating



Excellent Temperature Performance



Improved Low Light Performance

Positive Power Tolerance of 0~+5%

25 Years Performance Warranty

10 Years Product Warranty

PID Resistant

Module Efficiency >20.1%

Electrical Parameters at Standard Test Conditions STC

Type	CSPL24M380	CSPL24M385	CSPL24M390	CSPL24M395	CSPL24M400
Power Output Pmax (W)	380	385	390	395	400
Voltage at Pmax V mpp (V)	39.75	39.97	40.17	40.38	40.60
Current at Pmax I mpp (A)	9.57	9.64	9.71	9.79	9.86
Open-circuit Voltage VOC (V)	48.5	48.70	48.90	49.10	49.30
Short-circuit Current ISC (A)	9.93	10.00	10.07	10.14	10.22
Module Efficiency (%)	19.1	19.4	19.6	19.9	20.1

STC : 1000 W/m² irradiance, 25°C cell temperature, AM 1.5g

Electrical Parameters at NOCT

Type	CSPL24M380	CSPL24M385	CSPL24M390	CSPL24M395	CSPL24M400
Power Output Pmax (W)	281.2	284.9	288.6	292.3	296.0
Voltage at Pmax V mpp (V)	36.79	37.00	37.18	37.38	37.58
Current at Pmax I mpp (A)	7.64	7.70	7.76	7.82	7.88
Open-circuit Voltage VOC (V)	44.94	45.13	45.31	45.50	45.68
Short-circuit Current ISC (A)	8.03	8.09	8.15	8.20	8.27

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

Thermal Characteristics

Nominal Operating Cell Temperature	NOCT	°C	45°C ± 2°C
Temperature Coefficient of Pmax	γ	%/°C	-0.38
Temperature Coefficient of VOC	β	%/°C	-0.36
Temperature Coefficient of ISC	α	%/°C	0.07

Operating Condition

Max. System Voltage	1000vdc
Max. Series Fuse Rating	20A
Limiting Reverse Current	25A
Operating Temperature Range	-40 °C to+85 °C
Max. Static Load, Front	5400pa
Max. Static Load, Back (e.g., wind)	2400pa
Max. Hailstone Impact (diameter / velocity)	25mm dia // 23m/s

Mechanical Data

Dimensions (L / W / H)	1986mm / 1001mm / 35mm
Weight	22.5kg
Front Cover (material / thickness)	Ar Coated High Transmission Low Iron Tempered Glass/3.2mm
Cell (qty. / material / dim./no. of busbars)	72/ Mono Perc / 158.75mm x 158.75mm / 5
Encapsulate (material)	Enthylene Vinyl acetate (EVA)
Backsheet	UV Protected
Frame (material / color)	Anodized aluminum alloy /silver
Junction Box (protection degree)	IP68/67, 3 bypass diodes
Cable (length / cross-sectional area)	1200mm / 1000mm / 4mm ²
Plug Connector (type / protection degree)	MC4

Packaging Specification

Container Size	20'	40'HC
Quantity Per Pallet :	30	30
Pallets / Container :	10	20
Quantity / Container :	300	600

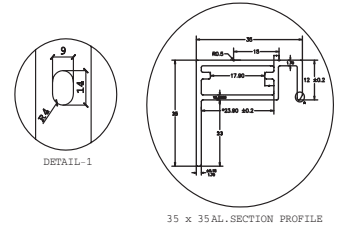
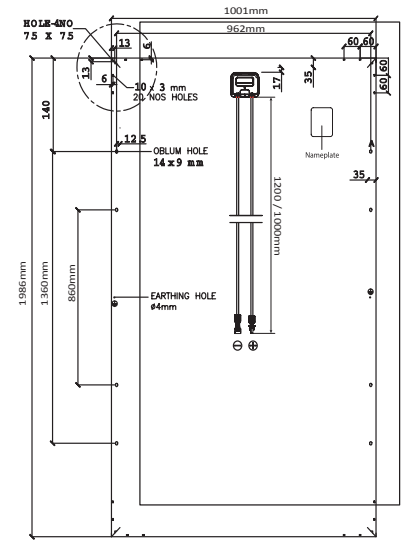
(Two pallets = One stack)

Linear Performance Warranty

- 90% of the specified minimum output of the module for a 10 years period
- 80% of the specified minimum output of the module for a 25 years period
- 10-year product warranty
- 25-year linear performance warranty

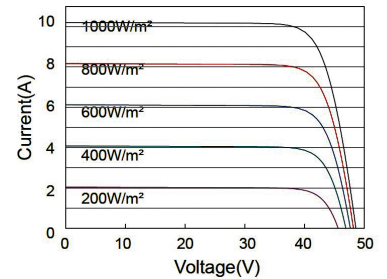
Declaration : With the technical progress and product updates,there exists a deviation between the technical parameter of the CITIZEN SOLAR's future products and the technical parameter in this specification,The CITIZEN SOLAR reserves the right to adjust the technical parameter at any time without notifying the customers, CITIZEN SOLAR reserves the final right of interpretation.

Engineering Drawing (mm)



Electrical Performance

Current-Voltage Curve CSPL 390W_Ref



Power-Voltage Curve CSPL 390W_Ref

