

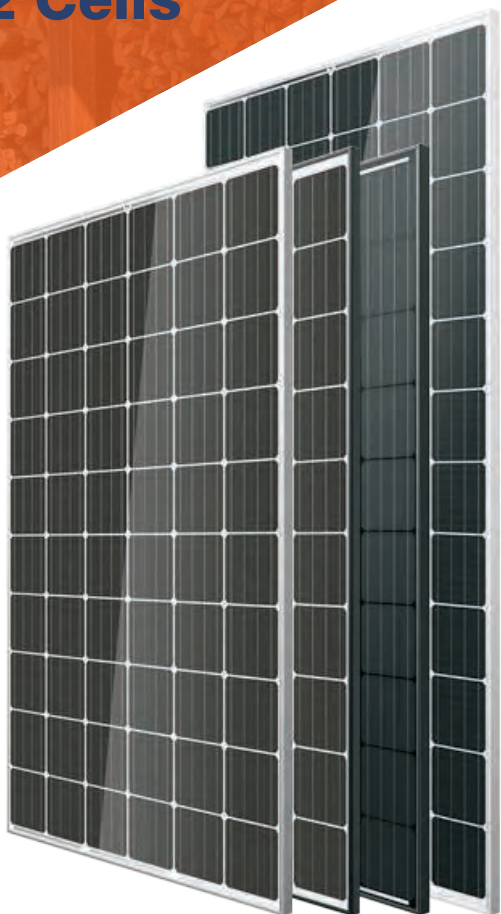
CG M72 400-415WP

India's First Certified 400WP+ Range Solar PV Modules with Trusted 72 Full Cell Technology

72 Cells



- ANTI PID TECHNOLOGY (APT)
- HOT-SPOT PROTECT (HSP)
- TRACEABLE QUALITY (TRA.Q)
- ANTILID TECHNOLOGY (ALT)



5 BUSBAR SOLAR CELL

Advanced 5 busbar Cell technology for higher efficiency and better aesthetics



COST EFFECTIVE

Offering high value at low cost, makes it one of the popular choices of installers and customers



LOWER BOS COSTS

Designed for high voltage systems of upto 1500 VDC, saving balance of system costs



ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior



ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID and Anti PID Technology, Hot-Spot Protect and Traceable Quality



LOAD CAPACITY ENHANCEMENT

High durability raw materials helps to withstand high snow (5400 Pa) and wind loads (2400 Pa)



A RELIABLE INVESTMENT

10 years product warranty and 25 years linear power output warranty makes it a reliable investment

Contendre (CGPL) is one of the world's leading solar solution experts. We are specialised in high efficiency solar module manufacturing, distribution and research. To utilise our production and technology advantage, we provide our customers with comprehensive solutions for the whole life cycle of solar project.

THE IDEAL SOLUTION FOR:



Rooftop arrays on commercial and industrial buildings



Ground-mounted solar power plants

We use Raw Materials certified by:



Made in India

Note: Specifications subject to technical changes and tests. Contendre reserves the right of final interpretation.

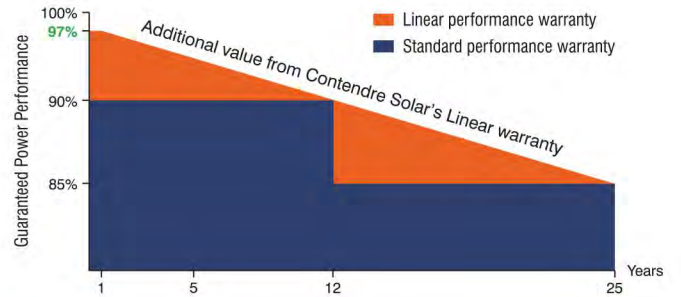


CONTENDRE

MECHANICAL SPECIFICATION

| | |
|--------------------------|--|
| M4 Mono Perc Cell | 6 x 12 (72) |
| Format | 2020 x 1020 x 40 mm |
| Weight | 25 kg |
| Front Cover | 3.2 mm tempered glass with anti reflection technology |
| Back Cover | Fluoro Polymer based PVDF Backsheet |
| Frame | More than 15 micron Anodized Aluminium |
| Junction Box | TUV & UL approved, IP 67 / IP 68 rated 4 terminal Junction box with 3 bypass diodes |
| Cable | 1200mm Long, 4mm ² cables |
| Connector | MC4 compatible connectors |

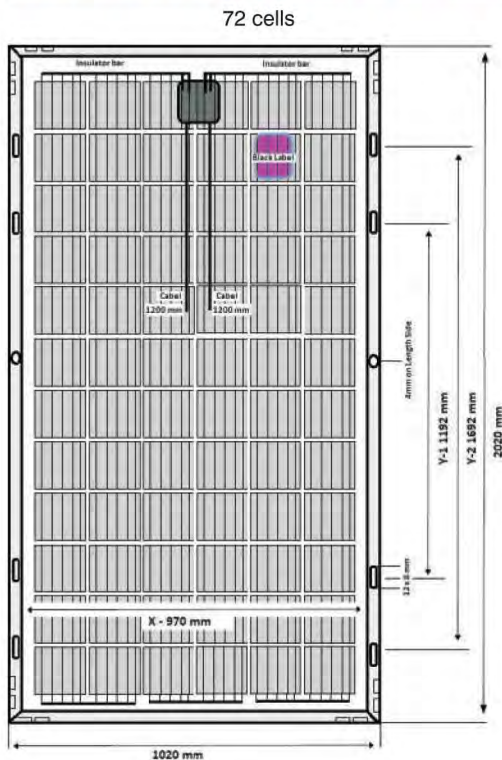
PERFORMANCE WARRANTY



ELECTRICAL PARAMETERS

| P-SERIES | | 72 Cells | | | |
|--|---------------|----------|--------|--------|--------|
| | | 400 | 405 | 410 | 415 |
| ELECTRICAL PARAMETERS | | | | | |
| Power at MPP | P_{VPP} [W] | 400 | 405 | 410 | 415 |
| Short Circuit Current | I_{SC} [A] | 10.51 | 10.54 | 10.60 | 10.61 |
| Open Circuit Voltage | V_{OC} [V] | 48.37 | 48.51 | 48.59 | 48.98 |
| Current at MPP | I_{MPP} [A] | 9.95 | 9.99 | 10.06 | 10.08 |
| Voltage at MPP | V_{VPP} [V] | 40.21 | 40.57 | 40.72 | 41.18 |
| Efficiency | η [%] | 19.41% | 19.66% | 19.90% | 20.14% |
| Fill Factor | | 78.70 | 79.27 | 79.53 | 79.88 |
| Electrical values measured at STC: 25 °C, 1.5AM, 1000 W/m ² | | | | | |
| MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOCT | | | | | |
| Power at MPP | P_{VPP} [W] | 296.39 | 300.24 | 303.46 | 307.50 |
| Short Circuit Current | I_{SC} [A] | 8.49 | 8.52 | 8.56 | 8.57 |
| Open Circuit Voltage | V_{OC} [V] | 45.27 | 45.41 | 45.48 | 45.85 |
| Current at MPP | I_{MPP} [A] | 7.88 | 7.91 | 7.97 | 7.98 |
| Voltage at MPP | V_{VPP} [V] | 37.64 | 37.97 | 38.11 | 38.54 |
| Measurement tolerance, AM 1.5G, NOCT (Wp) at 45 ± 2 °C @800 W/m ² | | | | | |

CONTENDRE MODULE DIMENSION DIAGRAM



TEMPERATURE COEFFICIENTS

| | | | |
|--------------------------------------|------|-------|-----------|
| Temperature Coefficient of I_{SC} | a | [%/C] | +0.05 |
| Temperature Coefficient of P_{MPP} | y | [%/C] | -0.37 |
| Temperature Coefficient of V_{CC} | b | [%/C] | -0.32 |
| Normal Module Operating Temperature | NMCT | [°C] | 45 ± 2 °C |

PROPERTIES FOR SYSTEM DESIGN

| | | |
|----------------------------------|--------------------------|-------------------|
| Maximum System Voltage V_{sys} | [V] | 1500 (IEC) |
| Maximum Series Fuse Rating | [A DC] | 20 |
| Max. Design Load, Push / Pull | [lbs / ft ²] | 2400 Pa |
| Max. Test Load, Push / Pull | [lbs / ft ²] | 5400 Pa |
| Safety Class | | II |
| Fire Rating | | C |
| Temperature Degree Celsius | | -40°C up to +85°C |

PACKAGING DETAILS

| | 72 Cells |
|--|-----------|
| Number of Modules per Pallet | 28 |
| Number of Pallets per 40' HC-Container | 24 |
| Number of Modules per 40' HC-Container | 672 |
| 1-Pallet Weight | 710.00 kg |

QUALIFICATION AND CERTIFICATES

UL 1703, CE-compliant.
IEC 61215:2016, IEC 61730:2016, Application Class II.
ISO 9001:2015, ISO 14001:2015, ISO 45001:2018.



Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Specifications subject to technical changes. ©CONTENDRE

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Made in India



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