



CONTENDRE
SOLAR

X SERIES



CG X108

400–415W

Half Cut Mono–Perc Module
108 Cut Cells
Max Efficiency 21.24



THE IDEAL SOLUTION FOR



Rooftop arrays on commercial and industrial buildings



Ground–mounted solar power plants

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.

We use Raw Materials certified by:



Made in India

Note: Specifications subject to technical changes and tests.
Contendre reserves the right of final interpretation.
Also available in full black variant.



Multi Busbar Cell Technology

Shorter Distance Between Busbar Allows Better Flow of Electrons and Reduce Power Loss.



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

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

MECHANICAL SPECIFICATION

Dimensions (L x W x T in mm)	1724 x 1134 x 35
Weight (kg)	21.4
Cell type / No of Cell	108 Half-cut Mono PERC Solar cells
Frame	Anodised Aluminium Alloy (6005, Temper T6, Black colour)
Front Cover	ARC coated Low iron Tempered Glass (3.2 mm thick)
Encapsulate	Ethylene Vinyl Acetate (EVA) Sheet – PID resistant and UV resistant
Back Cover	Fluoro Polymer Based Backsheet
Junction Box	Split Junction Box (3 nos. with individual Bypass Diode) – Weatherproof (IP68)
Bypass Diode	40 A, 45 V, 200°C max. junction temperature
Cable	4 sq. mm, 400 mm length (Customized cable length available on request)
Connectors	MC4 compatible (MC4 original available on request)
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test (as per IEC & UL)	5400 Pa–Front; 2400 Pa–Back
Mounting Holes Pitch (Y)mm	(A) 1360, (B) 860
Mounting Holes Pitch (X)mm	1095

ELECTRICAL PARAMETERS (STC*)

Model	Pmax (W)	Voc (V)	Vmp (V)	Imp (A)	Isc (A)	F.F.	Eff (%)
CG-X108-400	400	37.33	31.32	12.77	13.50	79.70	20.47
CG-X108-405	405	37.38	31.49	12.86	13.57	79.80	20.73
CG-X108-410	410	37.53	31.64	12.96	13.64	80.00	20.98
CG-X108-415	415	37.64	31.85	13.03	13.70	80.4	21.24

(1) STC: 1000/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3.
(2) Power measurement uncertainty is within +/-2%.

Bifacial Output – Backside Power Gain @ STC*

5%	Nominal Maximum Power (Pmax) Module Efficiency (%)	420W 21.48%	425W 21.75%	431W 22.05%	436W 22.30%
10%	Nominal Maximum Power (Pmax) Module Efficiency (%)	440W 22.51%	446W 22.81%	451W 23.07%	457W 23.38%
25%	Nominal Maximum Power (Pmax) Module Efficiency (%)	500W 25.58%	506W 25.88%	512W 26.21%	519W 26.55%

(Note: The bifacial gain depends on the power plant design and site conditions.)

ELECTRICAL PARAMETERS (NMOT*)

Model	Pmax (W)	Voc (V)	Vmp (V)	Imp (A)	Isc (A)
CG-X108-400	298	34.74	28.94	10.30	10.91
CG-X108-405	301	34.78	29.09	10.35	10.97
CG-X108-410	305	34.93	29.24	10.43	11.02
CG-X108-415	308	35.03	29.43	10.47	11.07

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

MAXIMUM OPERATING CONDITIONS

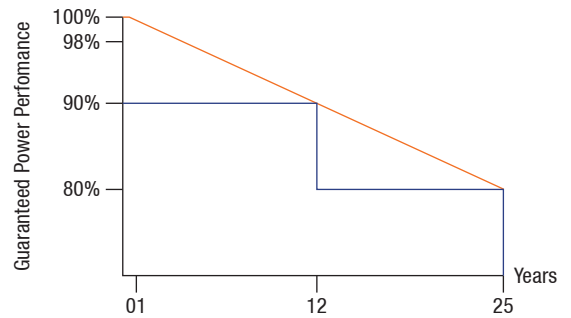
Operating Temperature	-40°C to +85°C
Maximum System Voltage	1500V
Maximum Series Fuse Rating	25A

TEMPERATURE COEFFICIENTS

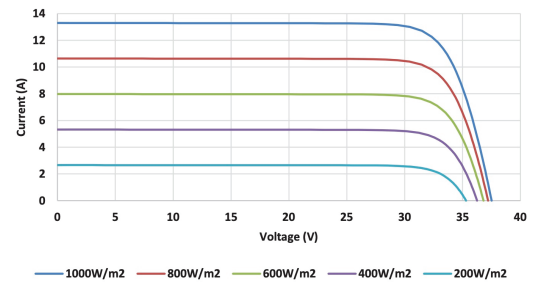
Power (Pmax)	-0.278%/°C
Voltage (Voc)	-0.2470%/°C
Current (Isc)	0.0297%/°C

Caution: Please read safety and installation instructions before using the product. ***Power Degradation:** Linear power degradation up to 2.0% in 1st year and 0.6%/year from year 2 to year 25. Please read Contendre warranty documents thoroughly. **DISCLAIMER:** specifications included in the datasheet are subject to change without prior notice owing to continuous innovation on the product Development and R&D Activities. Contendre Solar reserves the right to make any adjustment to the information described here, Dataset contained in this specification do not form a representative of a single module data. ©T&C Apply.

LINEAR PERFORMANCE WARRANTY

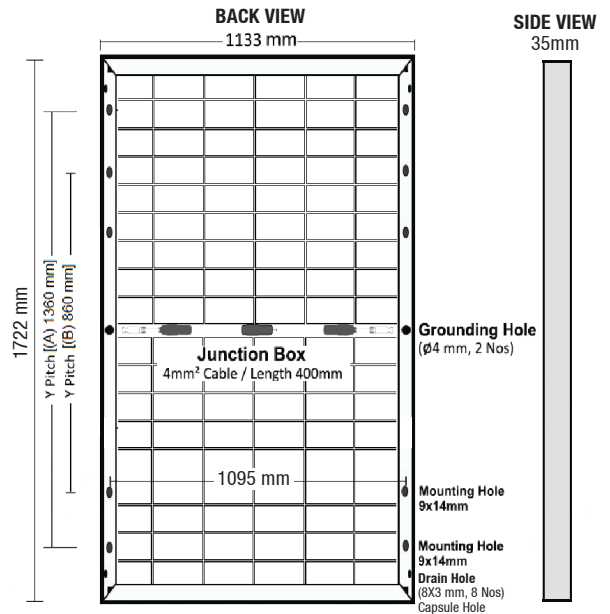


REFERENCE IV CURVE DETAIL



Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

REAR VIEW & MOUNTING DETAIL



STACKING STANDARD

	20 FT	40 FT
No. of Modules	186	806
No. of Pallets	6	26
Modules per Pallet / Weight	31 Nos / 700 kg	31 Nos / 700 kg
Pallet dimensions	1765 x 1130 x 1275	1765 x 1130 x 1275

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