

X Series

#MaxPower

CG X144

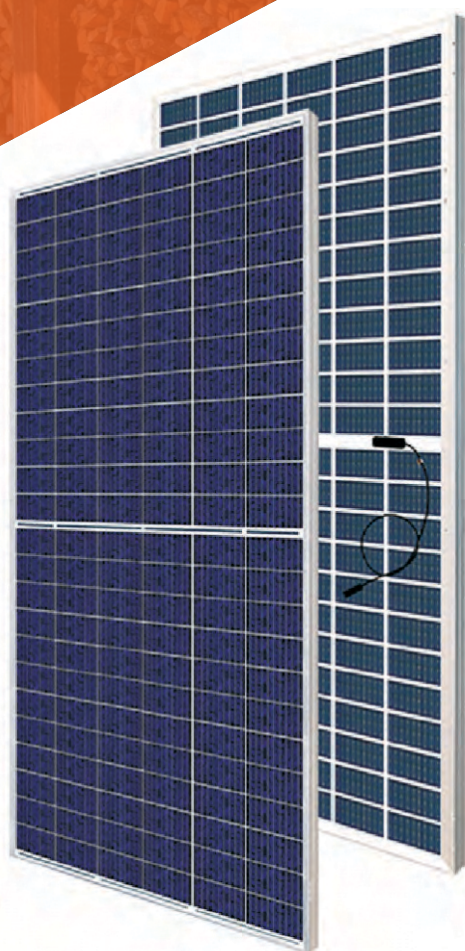
535-550W

144 CUT CELLS MODULE
MAX EFFICIENCY COMBINED
WITH MAX POWER



YIELD SECURITY

- ANTI PID TECHNOLOGY
- HOT-SPOT PROTECT
- TRACEABLE QUALITY
- ANTILID TECHNOLOGY



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

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.

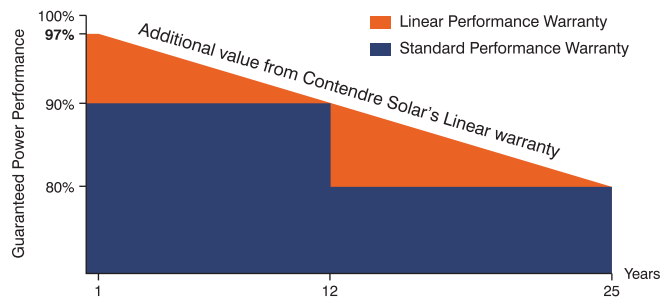


CONTENDRE

MECHANICAL SPECIFICATION

M10 Mono Perc Solar Cells	2 x 6x12 (144)
Format	2279 x 1134 x 35mm
Weight	28Kg(61.73 lbs)
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 68 rated 3 Part, 6 Terminal 3 Bypass Diodes Junction Box
Cable	4mm2 cables
Connector	MC4 compatible connectors

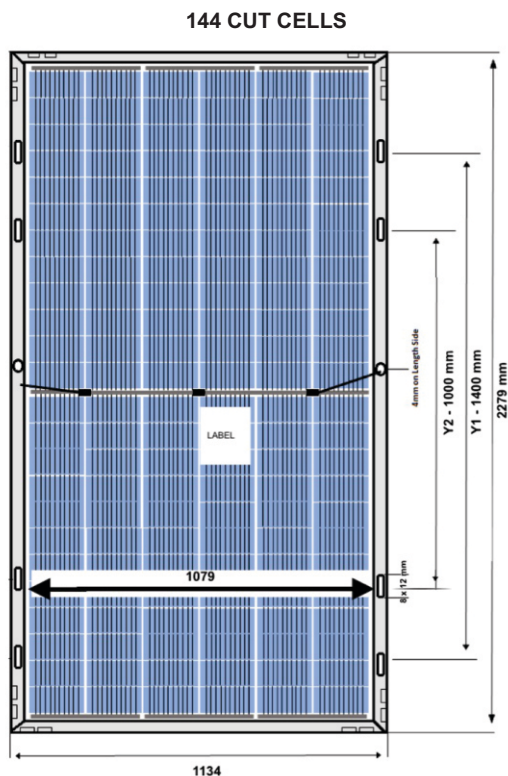
PERFORMANCE WARRANTY



ELECTRICAL PARAMETERS

M _{MAX} -SERIES		144 CUT CELLS			
		535	540	545	550
ELECTRICAL PARAMETERS					
Power at MPP	P _{MPP} [W]	535	540	545	550
Short Circuit Current	I _{SC} [A]	13.79	13.86	13.93	14.00
Open Circuit Voltage	V _{OC} [V]	49.45	49.60	49.75	49.90
Current at MPP	I _{MPP} [A]	12.90	12.97	13.04	13.11
Voltage at MPP	V _{MPP} [V]	41.47	41.64	41.80	41.96
Efficiency	n [%]	20.7%	20.9%	21.1%	21.3%
Fill Factor					
Electrical values measured at STC: 25 °C, 1.5AM, 1000 W/m ²					
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOCT					
Power at MPP	P _{MPP} [W]	405	408	412	416
Short Circuit Current	I _{SC} [A]	11.05	11.09	11.13	11.17
Open Circuit Voltage	V _{OC} [V]	46.31	46.43	46.55	46.68
Current at MPP	I _{MPP} [A]	10.43	10.47	10.51	10.55
Voltage at MPP	V _{MPP} [V]	38.78	38.99	39.20	39.43
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]	0.045% / °C
Temperature Coefficient of P _{MPP}	y	[%/C]	-0.35% / °C
Temperature Coefficient of V _{OC}	b	[%/C]	-0.275% / °C
Normal Module Operating Temperature	NMCT	[°C]	44.0 °C (+/-3 °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

144 CUT CELLS	
Number of Modules per Pallet	28
Number of Pallets per 40' HC-Container	20
Number of Modules per 40' HC-Container	600
1-Pallet Weight	850Kg

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. Please confirm your exact requirement with the company representative while placing your order ©CONTENDRE

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Made in India

