





CG X144

535-550W

Mono-Perc (M10) Solar PV Module 144 Cells | Max Efficiency 21.45% Monofacial | Bifacial





Multi Busbar Cell Technology

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



Lower LCOE

Lower LCOE with Lower BOS cost improving the value of the product with competitive ROI.



Lower Internal Resistance

Minimal power loss due to lower internal resistance in turn boosting module power.



Bifacial Gains

Upto 25% additional bifacial gains with rear side generation from reflected sunlight.



Enduring High Performance

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



Extreme Weather Resilience

High durability raw materials helps to withstand high front load of upto (5400 Pa) and back loads of upto (2400Pa)



A Reliable Investment

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





Rooftop arrays on residential, 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.







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



Also Available in DCR Version

MECHANICAL SPECIFICATION

Dimensions (LxWxH in mm)	2261 x 1134 x 35 (Also available in 40 mm)
Weight (kg)	28.5 kg
No. of Cells	144 (12 x 6 / 12 x 6) Mono Perc (M10)
Aluminum Frame (40HS)	Silver Anodized Aluminum Alloy (Also available in black)
Front Cover	Low Iron Tempered Glass (3.2 mm thick)
Encapsulate	Ethylene Vinyl Acetate (EVA) Sheet-PID free & UV resistant
Backsheet	Fluoro Polymer based PVDF Backsheet
Junction Box with 3-Bypass diode/Rating	Split Junction Box (IP68)–Weather proof / MC4 Compatible
Application Class Rating	Class A
Fire Safety Class Rating	Class II
Mechanical Load Test (as per IEC & UL)	5400 Pa-Front; 2400 Pa-Back

Mounting Holes Pitch (Y)-mm (A) 1400, (B) 400

Mounting Holes Pitch (X)-mm 1095

ELECTRICAL PARAMETERS (STC*)

Model	Pmax (W)	Voc (V)	Vmp (V)	Imp (A)	Isc (A)	F.F.	Eff (%)
CG-X144-535	535	49.4	41.6	12.87	13.56	79.93	20.87
CG-X144-540	540	49.5	41.7	12.96	13.64	80.04	21.06
CG-X144-545	545	49.6	41.8	13.05	13.73	80.10	21.26
CG-X144-550	550	49.7	41.9	13.14	13.82	80.16	21.45

(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)	551W	557W	562W	561W
	Module Efficiency (%)	21.49%	21.72%	21.92%	22.11%
10%	Nominal Maximum Power (Pmax)	578W	583W	589W	594W
	Module Efficiency (%)	22.54%	22.74%	22.97%	23.17%
25%	Nominal Maximum Power (Pmax)	656W	663W	669W	675W
	Module Efficiency (%)	25.59%	25.86%	26.09%	26.33%

(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-X144-535	399,20	46.00	38.40	10.39	10.96
CG-X144-540	402.80	46.00	38.40	10.48	11.06
CG-X144-545	406.70	46.20	38.70	10.51	11.09
CG-X144-550	410.60	46.20	38.80	10.58	11.17
(3) 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

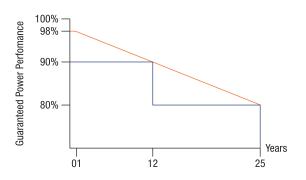
Power (Pmax)	−0.278%/°C
Voltage (Voc)	−0.230%/°C
Current (Isc)	+0.05%/°C
NMOT / NOCT	44 <u>+</u> 2°C

OTHER X SERIES PRODUCTS

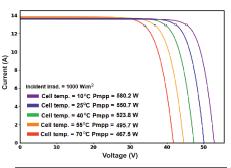
• CG-X120-XXX • 440Wp - 450Wp

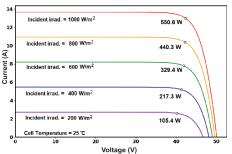
Caution: Please read safety and installation instructions before using the product. *Power Degradation: Linear power degradation up to 2.0% in 1st year and 0.6%/year from year 2 to year 25. Please read Contendre warranty documents thoroughly. DISCLAIMER: specifications included in the datasheet are subject 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

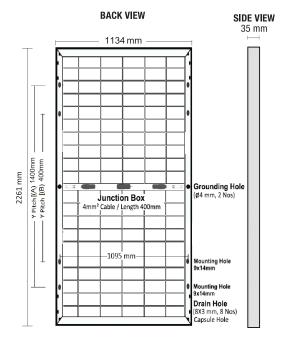


REFERENCE IV CURVE DETAIL





REAR VIEW & MOUNTING DETAIL



OFFICE: 909, Filix Tower, LBS Road, Bhandup (W), Mumbai, MH-400078. INDIA

FACTORY: Unit i/6, Rajlakshmi Hi-Tech Park, Sonale Village, Bhiwandi, Maharashtra-421302. INDIA





