

HYPER NOVA N

Half Cut TOPCON Model

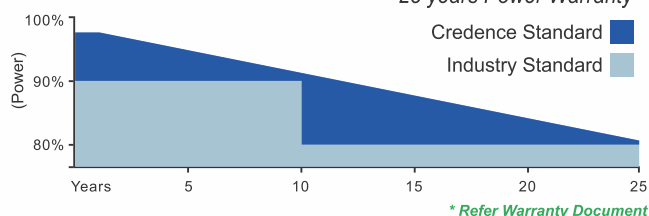
590+W

Efficiency up to

>23.00%

Linear Performance Warranty

10 years Product Warranty
25 years Power Warranty



Organization Certificates:



Product Certificates: *



IS 14286 | IS/IEC 61730-1/2 | IEC 61215
IEC 61730-1/2 | IEC 62804 | IEC 61701

* Under Process



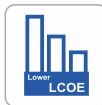
Half Cut Cell Design with
Multi Bus Bar Technology



Round Ribbon Technology



Higher Efficiency



Lower LCOE & BOS



PID Tested



1500V DC System Voltage



3 Stage EL Inspected

ELECTRICAL PARAMETERS (STC*):

Model	Voc (V)	Vmp (V)	Imp (A)	Isc (A)	Pmax (W)	Eff (%)
CS-HB590-144	51.40	42.80	13.80	14.50	590.00	23.00
CS-HB585-144	51.35	42.75	13.70	14.45	585.00	22.80
CS-HB580-144	51.25	42.70	13.60	14.35	580.00	22.60
CS-HB575-144	51.15	42.60	13.50	14.25	575.00	22.40
CS-HB570-144	50.95	42.40	13.45	14.18	570.00	22.20

*STC (Standard Test Conditions): Irradiance 1000W/m², Temperature 25°C, Spectrum at AM 1.5G.

ELECTRICAL PARAMETERS (NMOT*):

Model	Voc (V)	Vmp (V)	Imp (A)	Isc (A)	Pmax (W)	Eff (%)
CS-HB590-144	46.75	38.60	11.08	11.65	427.00	20.85
CS-HB585-144	46.70	38.55	11.00	11.61	424.00	20.65
CS-HB580-144	46.61	38.50	10.92	11.53	420.00	20.50
CS-HB575-144	46.52	38.41	10.85	11.45	416.00	20.30
CS-HB570-144	46.34	38.23	10.80	11.39	412.00	20.10

*NMOT (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient temperature 20°C, Spectrum at AM 1.5G, Wind speed at 1m/s. (NOCT is similar to NMOT)

STC with 10% gain from Rear side:

Model	Voc (V)	Vmp (V)	Imp (A)	Isc (A)	Pmax (W)	Eff (%)
CS-HB590-144	51.40	42.80	15.20	16.00	649.00	25.30
CS-HB585-144	51.40	42.80	15.10	15.90	644.00	25.10
CS-HB580-144	51.30	42.70	15.00	15.80	638.00	24.90
CS-HB575-144	51.20	42.60	14.90	15.70	632.00	24.60
CS-HB570-144	51.00	42.40	14.80	15.60	627.00	24.40

Design Specifications:

Cell Type	182mm - 16BB TOPCON Bi-Facial
Cell Configuration	144 (12 x 6 x 2) Half Cut Cells
Operating Temperature	-40°C to +85°C
Max. System Voltage	1500V DC
Max. Series Fuse Rating	25A
Application Class	A
Safety Class	C
Junction Box Type	Split JB IP68
Output Cable Length	300mm (1000mm/1200mm upon request)

Dimensional & Packing Details:

Dimensions	2261 x 1134 x 35mm (Glass to Glass with Frame)
Weight	33.50 kg
Modules/ Pallet	20 Nos
19Ft Truck	224 Nos
40 Ft HQ Container	616 Nos

Temperature Coefficients:

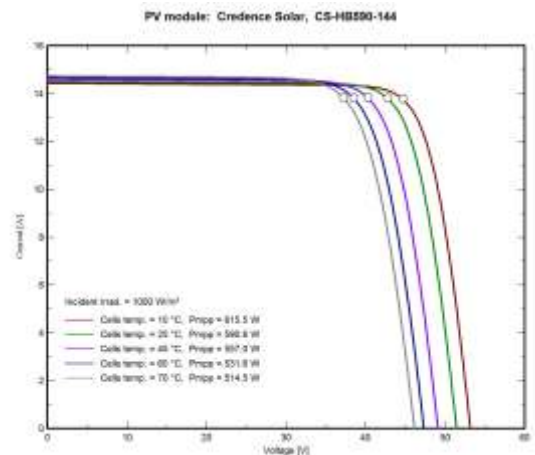
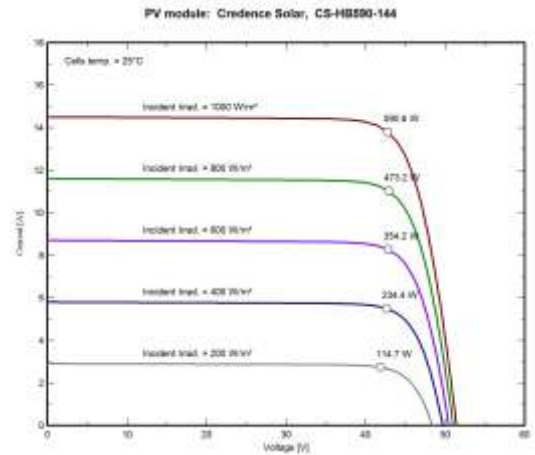
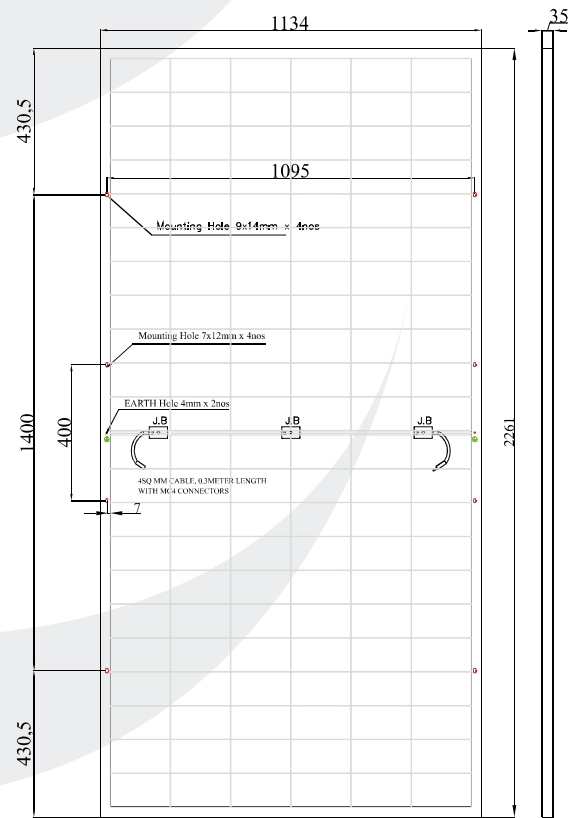
Power (Pmax)	-0.32%/ °C
Voltage (Voc)	-0.25%/ °C
Current (Isc)	+0.045%/ °C
NMOT/ NOCT	44±2 °C

Other Hyper Nova TOPCON Products :

- CS-HBxxx-132 - 520W ~ 540W
- CS-HBxxx-120 - 470W ~ 490W

Data sheets are available upon request.

The technical data and specifications are mentioned in the data sheet may changed without prior notice due to continuous improvements and innovations in the product. Please contact marketing for the latest updates and data sheet before finalizing the Order. Please be advised that Solar PV modules should be handled and installed by qualified personnel and please Refer Installation, Operation & Maintenance Manual before handling and start installation for safety & installation.

Reference IV Curve Detail:**Rear View & Mounting Detail:**

All Dimensions are in mm; Tolerance: ±2mm

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