

EG-HB120N-X 310W-350W

N type Bifacial Monocrystalline Solar modules

(Double glass + frameless)



ENERGY GAP

～ 未来から今を見る～

EG products Characteristics



Made in Japan

Manufacturing at our Izumi plant in Kagoshima Pref enables us to supply the Japan quality.



N type features

No initial light induced degradation(LID), Temperature coefficient, Enhanced power generation



Bifacial power generation

10% to 30% additional power generation by utilizing the reflected light in ambient environment of back panels.



High performance at low irradiation

Excellent power generation at low irradiation at dawn, dusk or cloudy day.



Environment adaptive

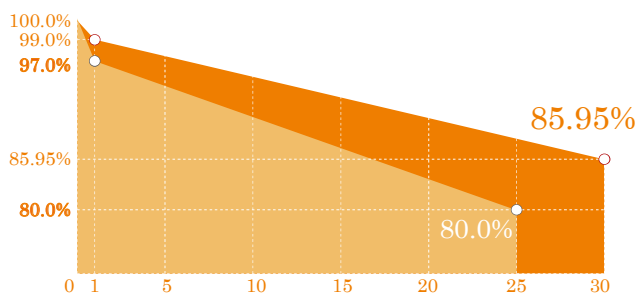
Adaptation to harsh environment has been confirmed. Wind pressure 2400Pa/ Snow load 5400pa



Quality control

In house test of more than 30 clauses(IEC standard) 4 times EL test(all modules)

EG linear guarantee



Standard module linear output guarantee

Energy gap's N Type Bifacial Monocrystalline Solar module linear output guaranty.



EG-HB120N-310 EG-HB120N-315 EG-HB120N-320
EG-HB120N-325 EG-HB120N-330 EG-HB120N-335
EG-HB120N-340 EG-HB120N-345 EG-HB120N-350

15 Years Products guarantee
30 Years Output guarantee

-1.00%
Output attenuation
in First year

-0.45%
Output attenuation
per year



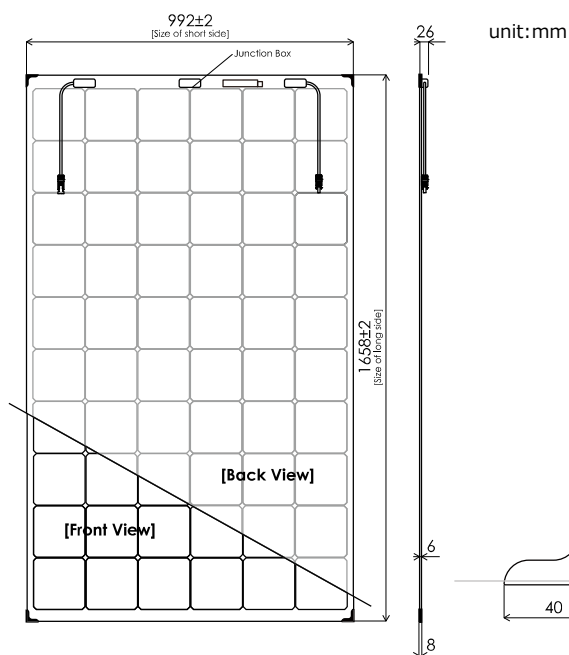
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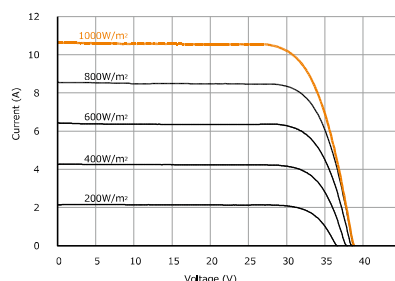
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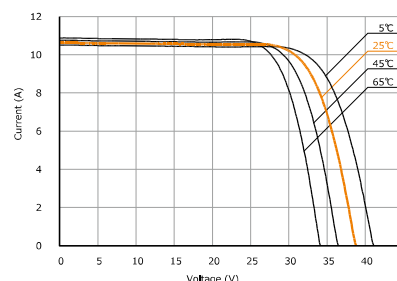
(Double glass + frameless)



Dependence on irradiation I-V curve



Dependence on temperature I-V curve



Temperature Characteristics

Max power(Pmax) Temperature coefficient	-0.38%/°C
Open circuit voltage(Voc) Temperature coefficient	-0.3%/°C
Short circuit current (Isc) Temperature coefficient	+0.048%/°C
Warranted tolerance(NOCT)	43±2°C

Electrical Characteristics

Max power(Pmax)	310	315	320	325	330	335	340	345	350
Max power voltage(Vmp)	31.60	31.80	31.90	32.10	32.20	32.40	32.50	32.70	32.80
Max power current(Imp)	9.82	9.92	10.04	10.14	10.25	10.36	10.47	10.57	10.68
Open circuit voltage(Voc)	38.50	38.70	38.80	39.00	39.20	39.30	39.50	39.60	39.80
Short circuit current (Isc)	10.45	10.54	10.63	10.72	10.81	10.90	10.99	11.08	11.17
Module conversion efficiency (%)	18.8	19.1	19.4	19.7	20.0	20.3	20.6	20.9	21.2
Operating temperature(°C)	-40°C ~ +85°C								
Max system voltage(V)	1000V/1500V(IEC)								
Max fuse rating(A)	15								
Fire protection	class C								
Power tolerance	0 ~ +5Wp								

*Test conditions: irradiance 1000W/m² Cell temperature 25°C. AM1.5

Electrical Characteristic | NOCT *

Max power(Pmax)	228	232	236	239	243	247	250	254	258
Max power voltage(Vmp)	28.80	28.90	29.00	29.20	29.30	29.50	29.60	29.70	29.90
Max power current(Imp)	7.94	8.02	8.11	8.19	8.28	8.37	8.46	8.54	8.63
Open circuit voltage(Voc)	35.80	36.00	36.10	36.30	36.50	36.60	36.80	36.90	37.10
Short circuit current (Isc)	8.44	8.52	8.59	8.66	8.74	8.81	8.88	8.95	9.03

*Test conditions: irradiance 800W/m² Cell temperature 20°C. AM1.5 Wind speed 1m/s

Specifications

Cell standard	156.75mm*156.75mm
Cell quantity	60PCS (6*10)
Dimension	1658mm*992mm*6mm
Weight	22.5Kg
Front/back	2.5mm Tempered glass/2.5mm Tempered glass
Frame	Frameless
Terminal box	IP67 (Diiodo*3)
Cable	4.0mm², 300mm
Connector	MC4

Qty per container (40FHC)	840pc/container
Packing	30pc/pallet
Product guarantee	15years
Linear performance guarantee	30years

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*Note: Specifications are subject to change without notice.

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