



3S HYPER 72HB

ABOUT 3SUN

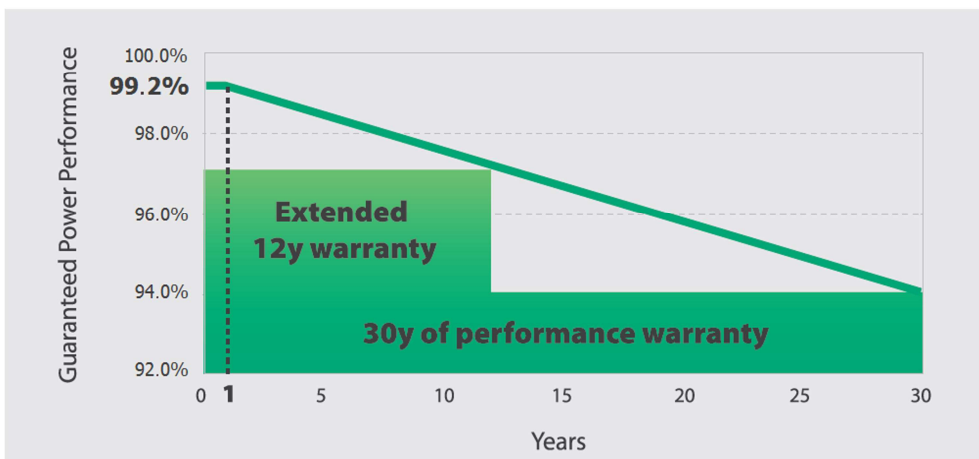
Founded in 2010 and owned by Enel green Power, the Italian PV factory is one of the largest in Europe. It's fully committed to the production of photovoltaic modules and its mission is to support the group to foster clean and renewable energy for a greener world.

KEY FEATURES

- High module efficiency: up to 20.5%
- Double glass frameless bifacial structure: up to +33% of energy production gain
- Certified for 1500V_{DC} system voltage; designed to withstand up to 2000V_{DC}
- Higher durability under harsh environment conditions
- Higher lifetime power yield:
 - Superior Warranty: 30 years performance
 - 0.20% linear power degradation
- Designed to be PID free
- Module made with LID & LeTiD free HJT solar cells
- Static load: tested up to 5400Pa front and 2400Pa rear

Warranty:

- 99.2% warranty for the first year
- Product warranty 12 years
- Linear Performance Warranty 30 years



Certified: IEC 61215-1/-1-1/-2:2016; IEC 61730-1/-2:2016; UL 61730-1/-2:2017.



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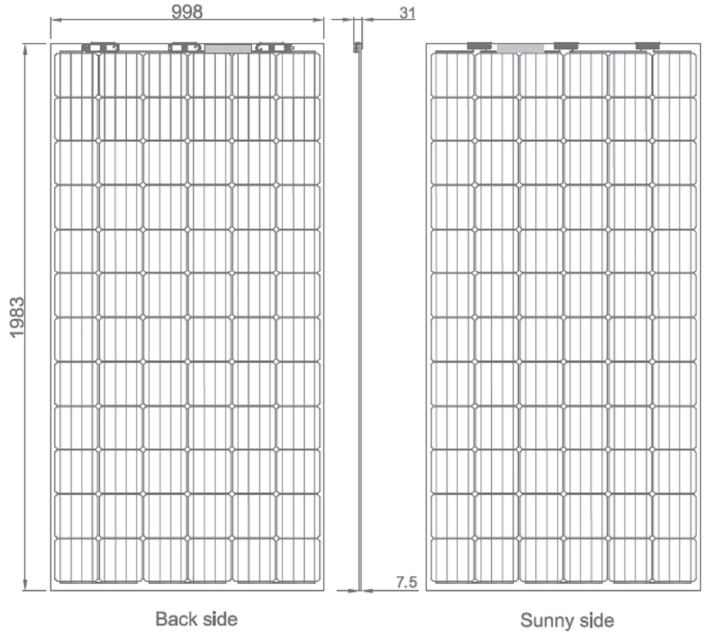
GENERAL CHARACTERISTICS

Number, type and arrangement of Cells	Mono-crystalline, n-type Si HJT, 72 cells in series (6x12)
Cell Size	156.75 mm x 156.75 mm
Pm Temperature Coefficient	-0.250 %/°C
Isc Temperature Coefficient	0.035 %/°C
Voc Temperature Coefficient	-0.180 %/°C
NMOT (Nominal Module Operating Temperature)	39 ± 2 °C
Test Condition	STC: AM1.5, 1000W/m ² , Cells Temperature 25°C
Operating Temperature	-40~+85 °C
Storage Temperature	-20~+50 °C

BIFACIAL AND LOW IRRADIANCE PERFORMANCES

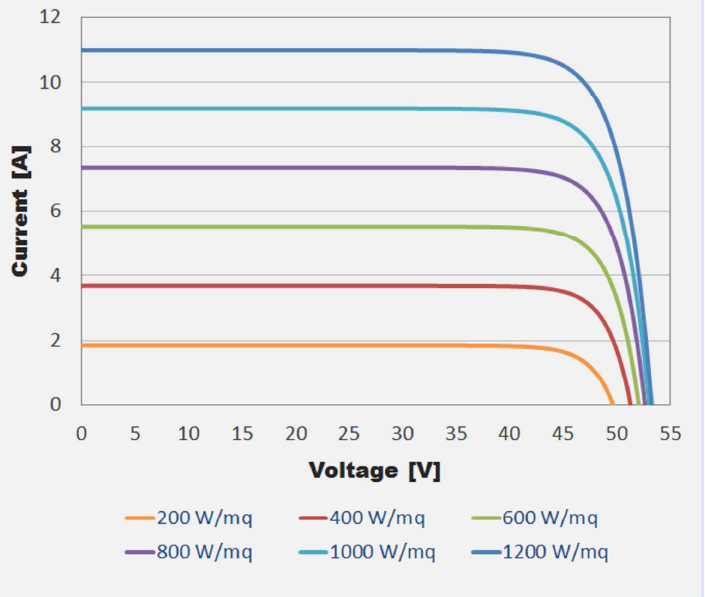
Power @STC (W)	350	355	360	365	370	375	380	385
Power @BSTC (W)*	429	435	441	447	453	459	466	472
Power @200W/m ² (W)	69	70	71	72	73	74	75	76

*: BSTC = Bifacial Standard Test Condition according to IEC 60904-1-2:2019.



MECHANICAL CHARACTERISTICS

Output Cable Diameter	4 mm ² (not supplied with module)
Type of Connector	PV4-S (MC4 alternative)
Junction Boxes (bifacial version)	IP67, three diodes
Max. Series Fuse (3)	15 A
Dimensions A x B x C	1983 x 998 x 7.5 mm (31 with J-BOX)
Weight	33 kg
Front Glass, Type and Thickness	AR coated, High Transmission, Low Iron, Tempered, 3mm
Back Glass, Type and Thickness	High Transmission, Low Iron, Tempered, 3mm
Packing Configuration	26 pcs/carton
Quantity/Pallet	2 cartons/pallet
Modules/Container	572 pcs/40ft(H), 260 pcs/20ft



TYPICAL PERFORMANCES AT STC

Module Type		3SHB350D		3SHB355D		3SHB360D		3SHB365D		3SHB370D		3SHB375D		3SHB380D		3SHB385D	
		STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Max-Power	Pm (W)	350	270	355	274	360	278	365	282	370	286	375	290	380	293	385	297
Power Tolerance	%	0 / +3%															
Max-Power Voltage	Vm(V)	42.20	40.50	42.50	40.79	42.80	41.08	43.10	41.37	43.40	41.66	43.70	41.94	43.90	42.14	44.10	42.33
Max-Power Current	Im(A)	8.29	6.66	8.35	6.71	8.40	6.75	8.46	6.80	8.52	6.85	8.58	6.90	8.66	6.96	8.73	7.02
Open-Circuit Voltage**	Voc(V)	52.20	50.38	52.40	50.57	52.60	50.76	52.80	50.95	53.00	51.15	53.2	51.34	53.40	51.53	53.60	51.73
Short-Circuit Current**	Isc(A)	8.66	6.96	8.76	7.04	8.84	7.11	8.92	7.17	9.00	7.24	9.08	7.30	9.17	7.37	9.25	7.44
Max-System Voltage	VDC (V)	1500 (IEC / UL)															
Module Efficiency	%	17.70	/	17.95	/	18.20	/	18.45	/	18.70	/	18.95	/	19.20	/	19.45	/
Bifaciality factor	%	>90%															

** : Tolerance ± 10%

Manufactured by Enel Green Power S. p. A.
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