

REGIONE EMILIA-ROMAGNA

PROVINCIA DI FERRARA
COMUNE DI FERRARA

PROGETTAZIONE DI UN IMPIANTO AGRIVOLTAICO AVANZATO DA 56,07 MW DENOMINATO "CUNIOLA" LOCALIZZATO NEL COMUNE DI FERRARA (FE)

ELABORATO

EP_28

SCHEDA MODULI FOTOVOLTAICI

PROPONENTE:

FERRARA SOLAR S.R.L.
SEDE LEGALE IN LARGO ARTURO TOSCANINI,1
20122 - MILANO (MI) P.IVA 05821240651
sicilysuntwosrl@arubapec.it



PROGETTAZIONE:

SAVESYSTEMS S.R.L.
PIAZZA DI PIETRA 26
00186 - ROMA (RM) - P.IVA 04981400650
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Rev	Data	Descrizione	Eseguito	Verificato	Approvato
00	GIU 2026	PROGETTO DEFINITIVO	C.C. A.D.	S.A.	S.A.

BIFACIAL HJT MONO CRYSTALLINE HALF CUT MODULE - DOUBLE GLASS

725 / 730 / 735 / 740 / 745 / 750 Watts

Hetero Junction (HJT) photovoltaic module is a Ground breaking Technology. HJT technology guarantees high performance and low degradation of the PV module substantially improving the results and the yield in the time "Hi-Max" Series module is the ideal solution for end users who want a Quality PV & reliable product over time and a fast turnaround on their investments



HJT 2.0 Technology

Combining gettering process and single-side $\mu\text{c-Si}$ technology to ensure higher cell efficiency and higher module power.



-0.24%/C Pmax temperature coefficient

More stable power generation performance and even better in hot climate.



SMBB design with Half-Cut Technology

Shorter current transmission distance, less resistive loss and higher cell efficiency.



Up to 90% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.



Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extent module lifespan.



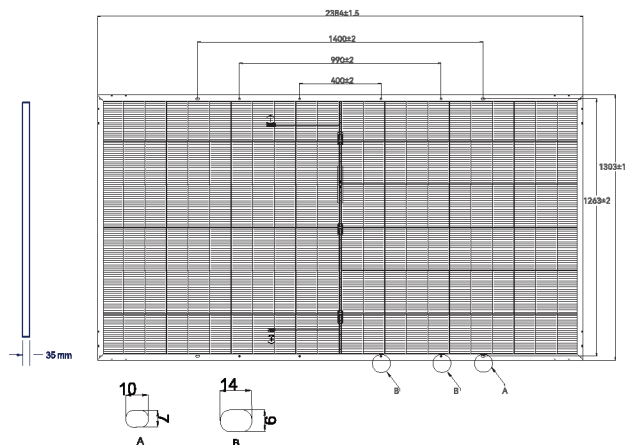
Higher reliability

Industrial leading product and performance warranty, ensuring modules consistent outstanding performance.



Mechanical Specification

Format	2384mm × 1303mm × 35 mm (including frame) (93.8 in × 51.3 in × 1.38 in)
Weight	39.0 kg (lbs)
Front Cover	2.0 mm (0.08 in) thermally pre-stressed glass with anti-reflection technology
Back Cover	2.0 mm (0.08 in) semi-tempered glass
Frame	Anodised aluminium
Cell	6 × 26 monocrystalline HJT NEO solar half cells
Junction box	Protection class IP68, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≤350mm (13.78in), (-) ≤350mm (13.78in)
Connector	Stäubli MC4-Evo2/MC4 or MC4 Compatible



Electrical Characteristics

POWER CLASS	725	730	735	740	745	750
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MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC POWER TOLERANCE +5 W / -0 W

Minimum			NMOT ²		NMOT ²		NMOT ²		NMOT ²		NMOT ²		NMOT ²		
	Power at MPP ¹	P _{MPP}	[W]	725	555	730	559	735	563	740	566	745	570	750	574
	Short Circuit Current ¹	I _{sc}	[A]	17.64	14.23	17.66	14.25	17.68	14.26	17.70	14.28	17.72	14.30	17.74	14.31
	Open Circuit Voltage ¹	V _{oc}	[V]	50.98	48.96	50.99	48.97	51.00	48.98	51.01	48.99	51.02	49.00	51.03	49.01
	Current at MPP	I _{MPP}	[A]	16.61	13.27	16.67	13.31	16.72	13.35	16.78	13.40	16.84	13.45	16.89	13.49
	Voltage at MPP	V _{MPP}	[V]	43.66	41.83	43.81	42.00	43.96	42.18	44.11	42.24	44.26	42.38	44.41	42.56
	Efficiency ¹	η	[%]	23.3		23.5		23.7		23.8		24.0		24.1	

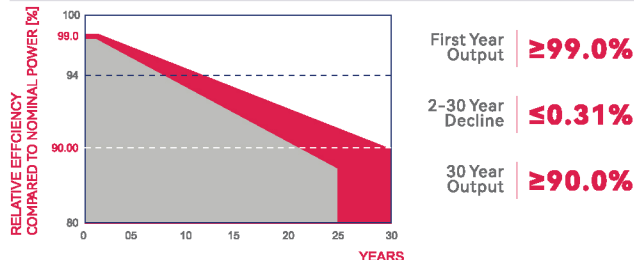
Bifaciality of P_{MPP} and I_{sc} 80 % ± 5 % • Bifaciality given for rear side irradiation on top of STC (front side) • According to IEC 60904-1-2

¹Measurement tolerances P_{MPP} ±3 %; I_{sc}, V_{oc} ±3% at STC: 1000 W/m²; ²800 W/m, NMOT, spectrum AM 1.5

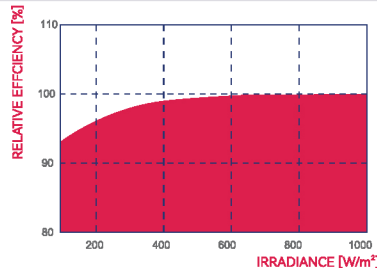
Bi Facial Output ³			725	730	735	740	745	750
Power with Backside Gain	+5	[%]	761.3	766.5	771.8	777.0	782.3	787.5
	+10	[%]	797.5	803.0	808.5	814.0	819.5	825.0
	+15	[%]	833.8	839.5	845.3	851.0	856.8	862.5
	+20	[%]	870.0	876.0	882.0	888.0	894.0	900.0
	+25	[%]	906.3	912.5	918.8	925.0	931.3	937.5
	+30	[%]	942.5	949.0	955.5	962.0	968.5	975.0

³ Bifaciality Factor > 90% - Back-side power gain depends upon the specific project albedo - Efficiency is according to the surface of the module

PERFORMANCE WARRANTY	PERFORMANCE AT LOW IRRADIANCE
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*Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)



TEMPERATURE COEFFICIENTS					
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Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of V _{oc}	β	[%/K]	-0.24
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.30	Nominal Module Operating Temperature	NMOT	[°F]	43 ± 3 °C (109 ± 5.4)

Properties for System Design

Maximum System Voltage	V _{sys}	[V]	1500	PV module classification	Class II
Maximum Series Fuse Rating		[A DC]	35	Fire Rating based on ANSI / UL 61730	TYPE 29 ⁵
Max. Push Load ⁴ , Test / Design		[lbs / ft ²]	113 (5400 Pa) / 75 (3600 Pa)	Permitted Module Temperature on Continuous Duty	-40 °C up to +85 °C (-40 °F up to +185 °F)
Max. Pull Load ⁴ , Test / Design		[lbs / ft ²]	78 (3750 Pa) / 52 (2500 Pa)		

⁴ See Installation Manual for instructions

⁵ New Type is similar to Type 3 but with metallic frame