

***Innovative.
Powerful.
Sustained.***

From austria for
more than 25 years.

e.Prime M HC

120 MONO PERC Halfcells. STC Performance 370 to 390 Wp.



Data sheet





Innovative. Powerful. Sustainable. From Austria for more than 25 years.

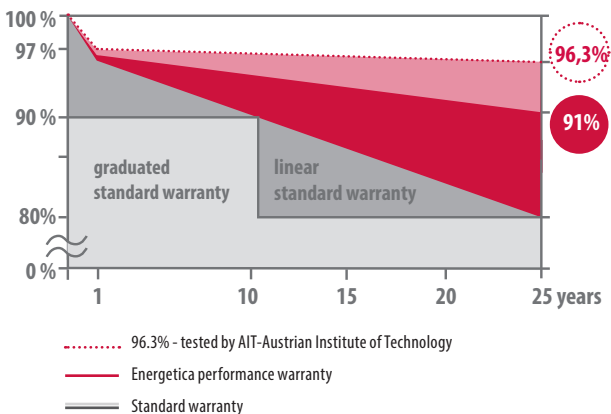
Energetica Photovoltaic Industries GmbH is an Austrian photovoltaic technology company based in Liebenfels. 25 years of industry experience culminate in our high-tech product portfolio, which is developed, tested and manufactured in a climate-neutral manner in one of the world's most modern 4.0 production facilities for PV modules.

e.STAK®-Strong. Stable. Sustainable.

Energetica's e.Prime series is designed for extreme weather conditions: 46 mm thick frame profiles and robust 4 mm glass allow the PV modules to withstand snow loads of up to 8000 Pa and wind loads of up to 3000 Pa.

The e.STAK stacking and packaging system from Energetica ensures that the modules arrive at their destination stable and without microcracks: In the stack, the specially developed frame profiles of the modules interlock. In combination with the film, they form a stable unit.

Slipping of the modules on the pallet becomes virtually impossible. The packaging material is reduced to the bare minimum. Moreover, the film used is made of biogenic plastic.



More power guaranteed.

The patented e.ISP technology increases the energy yield, and reduces the degradation (wear) of the cells. Based on extensive testing, the AIT-Austrian Institute of Technology certifies the performance of Energetica modules to an impressive 96.3 percent even after 25 years.

That's why, in addition to a 17-year product warranty, we offer a linear performance guarantee* of 91 percent of initial performance after 25 years.

* For details of the performance guarantee, see Energetica Approved Warranty in the first year 97% of the rated power and at least 91% of the rated power in the 25th year.



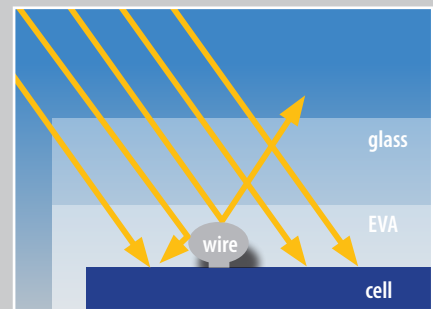
e.ISP®-TECHNOLOGY

e.ISP (Energetica Integrated Shadow Protection) improves the efficiency of the modules and optimises their energy yield in the sun and in the event of shading

12-BB-TECHNOLOGY

For optimised shading, highest efficiency and improved reliability due to shorter electron paths.

Result: the cell surface is used more effectively and the energy yield increases with the same module size.



12-busbar technology

e.Prime M HC

Photovoltaic module with 120 MONO PERC half cells. STC Performance 370 to 390 Wp

Uncompromising. Efficient.

Welcome to the premium class of Energetica. The e.Prime M HC offers future-oriented photovoltaics in a robust dress. 4mm glass and a 46mm thick frame defy wind, snow and hail. With 120 monocrystalline half cells and 12-busbar technology, the high-performance module achieves up to 390 Wp. The high-quality modules equipped with e.ISP guarantee the highest energy yield of the Energetica portfolio.



Electrical data (STC)

Type	370	375	380	385	390
Maximum power P_{Max} [Wp]	370,00	375,00	380,00	385,00	390,00
Open circuit voltage U_{OC} [V]	41,33	41,50	41,70	41,89	41,93
MPP voltage U_{MPP} [V]	34,65	34,98	34,80	34,94	35,03
MPP current I_{MPP} [A]	10,74	10,74	10,92	11,02	11,16
Short circuit current I_{SC} [A]	11,33	11,40	11,69	11,80	11,95
Module efficiency η_{Modul} [%]	20,00%	20,27%	20,54%	20,81%	21,08%
Performance sorting [Wp]	0/+5	0/+5	0/+5	0/+5	0/+5

These measurements are valid under standard test conditions STC. All electrical data $\pm 10\%$. Measurement uncertainty P_{MPP} (P_{Max}): $\pm 3\%$, (Airmass AM 1,5; radiation of 1000W/m²; cell temperature 25°C)

Electrical data (NMOT)

Type	370	375	380	385	390
Maximum power (P_{Max}) [Wp]	279,13	286,73	294,42	302,22	310,12
MPP voltage U_{MPP} [V]	32,54	32,98	33,42	33,86	34,30
MPP current I_{MPP} [A]	8,58	8,69	8,81	8,93	9,04
Open circuit voltage (V_{OC}) [V]	38,88	39,41	39,93	40,46	40,98
Short circuit current I_{SC} [A]	9,06	9,18	9,30	9,43	9,55

NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s. All technical data $\pm 10\%$

Electrical data (Low Irradiance)

Type	370	375	380	385	390
Maximum power (P_{Max}) [Wp]	70,87	72,80	74,76	76,74	78,74
MPP voltage U_{MPP} [V]	33,37	33,83	34,28	34,73	35,18
MPP current I_{MPP} [A]	2,12	2,15	2,18	2,21	2,24
Open circuit voltage (V_{OC}) [V]	38,74	39,26	39,79	40,31	40,83
Short circuit current I_{SC} [A]	2,24	2,27	2,30	2,33	2,37

Permissible operating conditions

Temperature range	-40°C bis +90°C
Maximum system voltage	1.000 V, 1500 V auf Anfrage
Test load _{max} / Breaking load	tested according to IEC up to 8 kPa snow/5.5 kPa wind
Bruchbelastung	> 10.0 kPa
Hail resistance	hailstone up to 25 mm Ø at 165,6 km/h v _{impact} hailstone up to 55 mm Ø at 120,6 km/h v _{impact}
maximum reverse current	16 A*

*In any case, due to the integrated active electronics, it must be ensured that there are no reverse currents greater than 16 A.

Temperature coefficient (Tc)

Tc short circuit current α	0,05 %/K
Tc open circuit voltage β	-0,26 %/K
Tc maximum power γ	-0,33 %/K
NMOT	43,5°C +/- 2

Note: This data sheet is a legally binding document and, along with the assembly instructions, is part of the proper documentation according to OVE EN 50380. Due to constant technical innovation, R&D and improvements, the above specifications are subject to change accordingly. Energetica Industries has the sole right to make these changes at any time without notice. The data given is without guarantee. Product representations are symbolic images and can partly differ from the original in terms of appearance and data.

Certifications and warranties

Certifications	IEC 61215, IEC 61730
	IEC 62716 (Ammonia corrosion test)
	IEC 61701 (Salt mist corrosion test)
	ISO 9001, ISO 14001, ISO 45001
	EN 61000-4-2
	EN 61000-4-4
	EN 61000-4-5
Module fire performance	EN 61000-4-6
	Safety Class II
	PID, LID, LeTID
	Class C, Fire class 1 (Italy)
Product warranty	20 years
Output warranty of P_{MAX} (Measurement tolerance $\pm 3\%$)	25 years linear acc. warranty conditions

Mechanical Data

Dimensions HxWxD	1780 x 1042 x 46 mm
Weight	25 kg
Front glass	transparent tempered anti-reflective glass 4 mm
Backsheet	highly reflective PET
Frame	black anodized aluminum
Cells	20 X 6 high efficiency solar half cells (166 x 83 mm)
Cell type	mono PERC, 12 busbars
Bypass control	active electronics at string level
Modul connector	4 mm ² solar cable (+,-) 1150 mm
Connectors	multi-contact MC4, IP68
Origin	Made in Austria

Paletts / Truck load

Pieces per pallet	23
Pieces per truck	644

All indicated dimensions in mm

