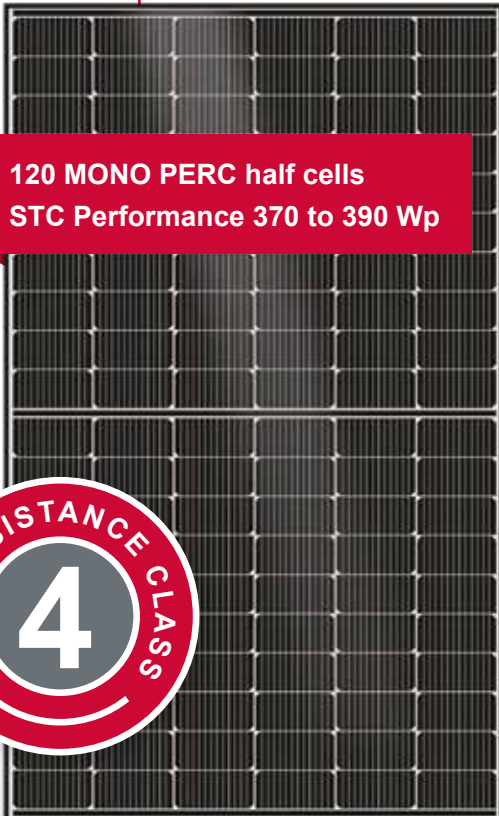


e ISP[®] M HC
CLASSIC HD

120 MONO PERC half cells
STC Performance 370 to 390 Wp



Heavy Duty resists the heaviest loads

- 1,5 t load with only 22 kg module weight (8.000 Pa acc. IEC Test, approx 1,5 to)
- Strong module performance that is retained even after extreme physical stress
- More stability due to a stronger frame
- Extreme resistance to loads, such as high snowpacks
- Better shading properties due to halfstring technology & e.ISP
- More power through use of 12-busbar technology and halfcut solar cells
- Optimized used cell surface due to fine round wires
- Manufactured in Austria

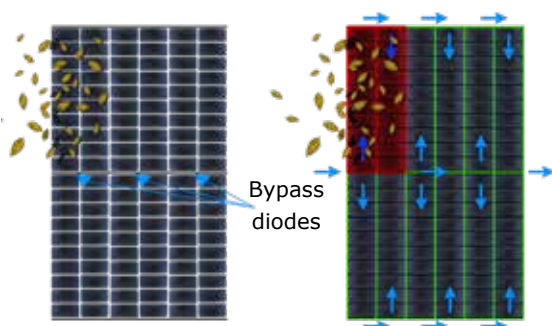
e.STAK[®] Strong, Stable and Sustainable.

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.

Halfcut panel technology

Significantly improved behavior during partial shading: If one half of the module is shaded, the second half of the module still generates full power.



energetica

energetica Industries GmbH
Energieplatz 1 | 9556 Liebenfels | Austria
P +43 4215 93 056
E office@energetica.at
energetica.at

e.Classic M HC HD Technical data

Electrical data (STC)

Type	370	375	380	385	390
Maximum power P_{Max} [Wp]	370.00	375.00	380.00	385.00	390.00
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
Open circuit voltage U_{OC} [V]	41.33	41.50	41.70	41.89	41.93
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 $1000W/m^2$; cell temperature $25^\circ C$)

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 $800 W/m^2$, ambient temperature $20^\circ C$, wind speed $1 m/s$. All technical data $\pm 10\%$

Permissible operating conditions

Temperature range	$-40^\circ C$ to $+90^\circ C$
Maximum system voltage	1,000 V
Test load I_{max}	tested according to IEC up to $8^* kPa$ snow / $2.4 kPa$ wind
Breaking load	$> 10.0 kPa$
Hail resistance class 4*	hailstone up to $40 mm \varnothing$ at $27.5 m/s v_{impact}$
Maximum reverse current	16 A**

*According to VKF. **Due to integrated active electronics, it must be ensured that no reverse currents greater than 16 A occur.

Temperature coefficient (Tc)

Tc short circuit current α	0.05 %/ $^\circ C$
Tc open circuit voltage β	-0.26 %/ $^\circ C$
Tc maximum power γ	-0.33 %/ $^\circ C$
NMOT	$43.5^\circ C \pm 2$

Note: This data sheet is a preliminary document and may still be adjusted until market launch. energetica Industries has the sole right to make these changes at any time without prior notice. The data given are without guarantee. Product illustrations are symbolic images and may differ in appearance and data from the original.



Certifications (pending)

Certifications / product tests	IEC 61215, IEC 61730
	IEC 62716 (Ammonia corrosion test)
	IEC 61701 (Salt mist corrosion test)
	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)

Warranties

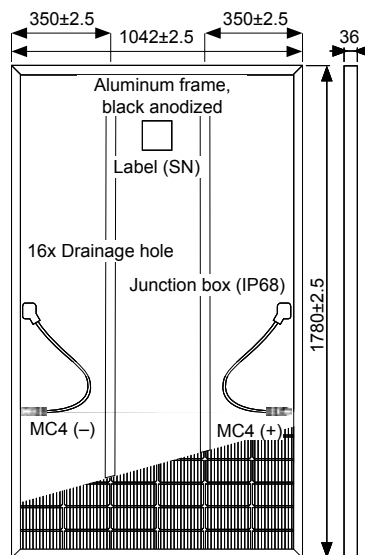
Product warranty	17 years
Output warranty of P_{MAX} (Measurement tolerance $\pm 3\%$)	25 years linear acc. warranty conditions

Mechanical Data

Dimensions (HxWxD)	1,780 x 1,042 x 36 mm
Weight	22 kg
Front glass	transparent tempered anti-reflective glass 3.2 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 (+,-) 1,150 mm
Connectors	multi-contact MC4, IP68
Origin	Made in Austria

Paletts / Truck load

Pieces per palett	30
Pieces per truck	840



All indicated dimensions in mm