Your life. Your energy.



SENEC.Solar 380M.BLK HC G3

When appearances matter, go all black.

SENEC.Solar 380M.BLK HC G3 (Mono): black frame, black backsheet



Thanks to our parent company EnBW, we are able to offer our customers highly efficient, high-performance solar photovoltaic modules – allowing you to generate big yields in small spaces.

The right choice even in snow and stormy weather

Our modules are proven to withstand impact from hail stones with diameters of up to 25 mm and speeds of 23 m/s.

Innovative cell technology

Our modules' PERC half-cell technology improves module output, reduces the risk of microcracks and enhances reliability – ensuring that you get the best results.

Reduced shading losses

The half-cell technology efficiently reduces the effects of shaded module surfaces and minimises internal mismatch losses.

MWT technology

We've done away with busbars and created a more attractive solar module. Back contact technology such as MWT also reduces shading within the modules by up to 3 %.

A safe and secure investment

We offer a 12-year product warranty and 25-year linear performance warranty. Exceptional reliability comes guaranteed thanks to our quality control checks that extend far beyond the scope of the statutory requirements.



Outstanding quality certified by TÜV

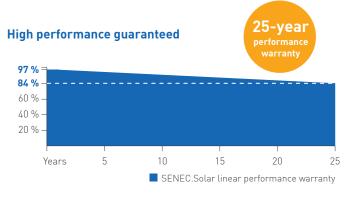
Excellent PID resistance demonstrated in a 288-hour test at 85 $^\circ\mathrm{C}$ and 85% relative humidity.

Positive power tolerance

Positive power tolerance of 0 – +5 W guaranteed.

SENEC PV modules feature high-efficiency, high-performance cells to ensure optimal use of the roof area even in poor weather conditions – allowing you to generate electricity at a lower cost.

The modules are especially durable thanks to extremely high manufacturing standards, resistance to extreme weather conditions and outstanding protection against output losses. This high quality is guaranteed by SENEC's product and performance warranty.



Certifications

IEC 61215:2016, IEC 61730:2016



ID: 4478 0214 0674 9257



Technical data

General properties	
Cell technology	PERC half-cell, monocrystalline
Cell size	166 x 83 mm
Max. weight	21 kg
Module dimensions (W x H x D)	1,805* x 1,035* x 30 mm
Cable length	1,150 mm
Cable core cross-section	4.0 mm ²
Glass (front)	3.20 mm highly transp., hardened, with AR
Backsheet	Black
Number of bypass diodes	3
Frame	Black, anodised aluminium alloy
Junction box ingress protection	IP68
Connection The colour may vary between the individual cel	MC4-Evo2 (Stäubli) Is of a PV module or between individual PV modules; this has

The colour may vary between the individual cells of a PV module or between individual PV modules; this han o impact on performance. * Tolerance $\pm 2 \text{ nm}$

Electrical properties

Modules per pallet

Nominal values – standard test conditions (STC) (light intensity 1,000 W/m², cell temperature 25 °C, air mass (AM) 1.5) Sorted according to P_{MM} 0 - +5 W

Max. nominal power (P _{MAX} /W)*	380
Nominal voltage (V _{MPP} /V)	35.7
Nominal current (I _{MPP} /A)	10.65
Open-circuit voltage (V _{oc} /V)*	43.0
Short circuit current (I _{sc} /A)*	11.18
Module efficiency (%)* *P _{MAX} , V _{oc} tolerance: ± 3.0 %; I _{sc} tolerance: ± 4.0 %	20.3

Nominal values – nominal module operating temperature (NMOT)

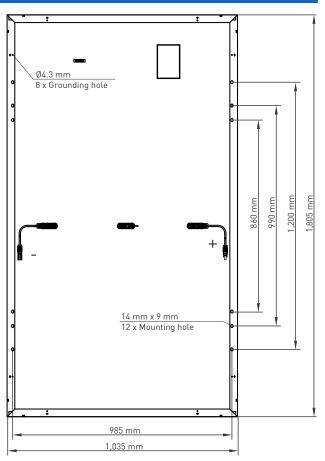
(light intensity 800 W/m², NMOT, ambient temperature 20 °C; air mass AM 1.5; wind speed 1 m/s)		
Max. nominal power (P _{MAX} /W)	286	
Nominal voltage (V _{MPP} /V)	32.9	
Nominal current (I _{MPP} /A)	8.7	
Open-circuit voltage (V _{oc} /V)	40.2	
Short circuit current (I _{sc} /A)	9.08	

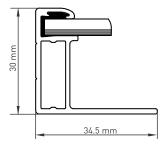
Operating conditions	
Max. system voltage	1,500 V
Operating temperature	-40 °C to +85 °C
NMOT	43 ± 2 °C
Maximum reverse current	27 A
Max. series fuse	20 A
Max. permissible push/pull load (design load)	3,600/1,600 Pa*
Max. test load (push/pull)	5,400/2,400 Pa*
Protection class *see the installation manual for further information	II
Temperature coefficients	
P _{MPP}	-0.36 %/°C
V _{oc}	-0.28 %/°C
I _{sc}	+0.06 %/°C
Packaging specifications	
Dimensions including pallet (W x H x D)	1,835 x 1,190 x 1,140 mm
Gross weight	750 kg
Max. pallet stacking	1 on 1

(2 – one on top of the other)

36

Technical drawing





Characteristic curves

