

EXCELLENT PERC60 smart | black

PERC 295-310 Wp

Improved optics and flexible, easy installation

Elegant and attractive
design

Optionally available as full
black edition

Extended clamping areas

Upside down installation
possible

Load up to 5,400 Pa

Optimized for performance

PERC high performance
solar cells

Antireflective glass
ensures high yields even at
diffuse irradiation

Positively classified
-0/+4.99 Wp

Industry-leading NOCT
values

100% PID safe

Highest quality standards

Manufactured in accordance
with DIN EN ISO 9001:2015
and ISO 14001:2015 and
OHSAS 18001:2007

PV-module type approval
according to IEC 61215 and
IEC 61215:2016

PV-module safety qualification
according to IEC 61730 and
IEC 61730:2016

Fire protection: tested in
accordance with
DIN ENV 1187 (t1)

Salt spray corrosion testing
according to IEC 61701

Ammonia resistance testing
according to IEC 62716

Guaranteed performance *

26 years linear
performance guarantee

12 years product
guarantee, optionally
extendable to 25 years

Optional complete
protection for the entire
system

EXCELLENT 295 | 300 | 305 | 310 PERC60

smart | black

Performance STC

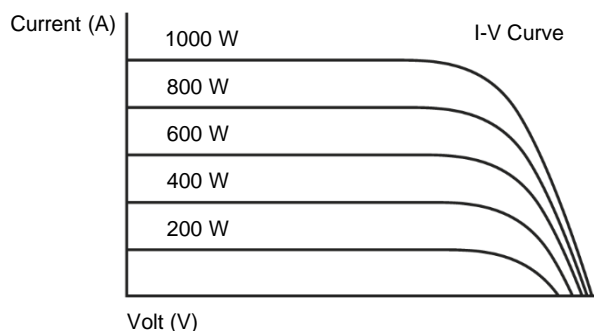
Under Standard Test Conditions STC:
1,000 W/m², spectrum AM 1.5, cell temperature
25°C, measurement tolerances STC: ±3% (Pmpp)

Nominal Power (Pmpp)	295	300	305	310
Open Circuit Voltage (Uoc)	39,15	39,28	39,62	39,82
Voltage (Umpp)	32,52	32,72	32,94	33,16
Short Circuit Current (Isc)	9,66	9,76	9,87	9,98
Current (Impp)	9,07	9,17	9,26	9,35
Efficiency η	17,4	17,6	17,9	18,2

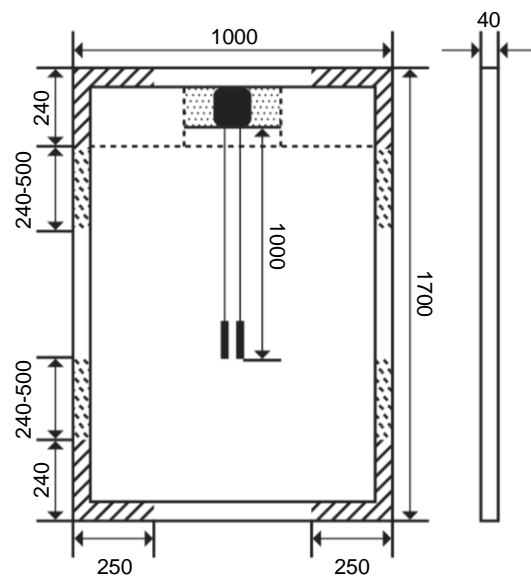
Performance

800 W/m², NOCT, AM 1.5

Nominal Power (Pmpp)	215	219	221	226
Open Circuit Voltage (Uoc)	36,24	36,36	36,68	36,86
Voltage (Umpp)	29,73	29,91	30,13	30,33
Short Circuit Current (Isc)	7,80	7,88	7,97	8,06
Current (Impp)	7,23	7,31	7,38	7,45



Clamping Areas
 Approved up to 2400 Pa
 Approved up to 5400 Pa
 No contact between junction box and mounting profile permitted in this area.



Measurements in mm

Thermal Properties

TC Pmpp	-0.40 %/K
TC Uoc	-0.31 %/K
TC Isc	0.035 %/K
NOCT	46 +/- 2 °C

Other Technical Specification

Max. System Voltage	1000 V
Weight	19.5 ± 0.5 kg
Reverse Current Load IR	15 A
Junction Box	IP67
Connectors	IP68
Bypass Diodes in Junction Box	3 pcs

Material Used

No. of Cells	60 pcs
Type of Cells	Monocrystalline
Front	Hardened Solar Glass
Frame	Anodized Aluminium
Frame Height	40 mm

