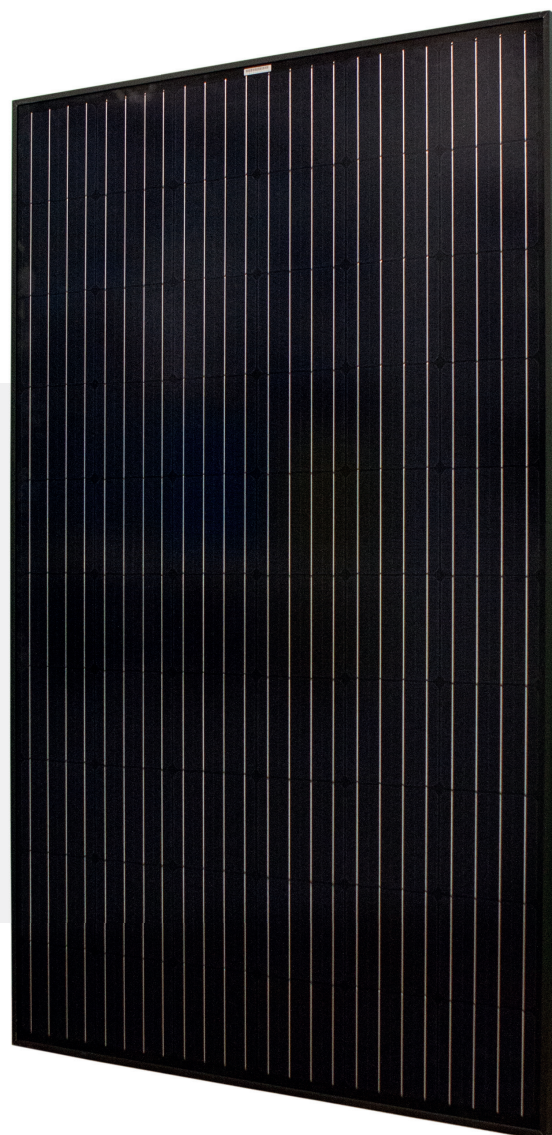


A-EXM MONO ALL BLACK MONOCRYSTALLINE 60 CELLS

OUTPUT:
300-320 WATT

EXE high efficiency all black mono-crystalline 60-cell series combines visual attractiveness to high performance. This series features black back sheet, a 3.5 mm black anodized aluminium frame, which combines robustness to light weight, and a 3.2 mm anti-reflective glass optimizing panel performance to solar irradiance.



Guaranteed positive output tolerance of 0/+5 Wp by single measuring



Maximum 5400 N/m² snow load



3,2 mm anti-reflective glass



Maximum stability through aluminium frame Soft-Grip



15 years manufacturer's warranty
25 years linear performance guarantee

A-EXM MONO ALL BLACK

MONOCRYSTALLINE 60 CELLS



Type	A-EXM 300/156-60	A-EXM 310/156-60	A-EXM 320/156-60
Nominal output P _{mp}	300Wp	310Wp	320Wp
Nominal voltage U _{mp}	32,10V	32,42V	40,80V
Nominal current I _{mp}	9,41A	9,60A	9,56A
Short circuit current I _{sc}	9,97A	9,58A	10,05A
Open circuit voltage U _{oc}	39,80V	40,02V	33,48V
Module with version efficiency	18,35%	19,07%	19,06%

Electrical characteristics (at Standard Test Conditions (STC) of irradiance 1000W/m², spectrum AM 25°C)

Design	
Frontside	3,2 mm anti-reflective glass
Cells	60 cells monocrystalline high efficiency cells 157x157 mm di 6" -5BB
Backside	Composite film black
Frame	35mm black anodized aluminium frame

Power with nection	
Socket	Protection class IP 67 (3 bypass diodes)
Wire	Approx 110 cm / 4 mm ²
Plug-in system	Plug / Socket IP 67

*NOCT, irradiance 800 W/m²; AM 1.5; wind speed 1 m/sec; Temperature 20°C)

Mechanical data	
LxWxH	1650 x 992 x 35 mm
Weight	19,5 kg with Frame

Temperature coefficient	
Voltage U _{oc}	-0,30%/K
Corrente I _{SC}	+0,04%/K
Output P _{mp}	-0,42%/K

Limit values	
System voltage	1500 VDC
NOCT*	45°C +/- 2K
Max. load-carrying capacity	5400 N/m ²
Reverse current feed IR	16,0 A

