



-  Guaranteed positive output tolerance of 0...+5 Wp by single measuring
-  Maximum 8000 Pa snow load
-  3,2 mm anti-reflective glass
-  Maximum stability trough aluminium frame Soft-Grip
-  15 years manufacturer's warranty
25 years linear performance guarantee



X-LINE MONO 60 HIGH EFFICIENCY Monocrystalline 60 cells

Type	EXM 280/156-60	EXM 290/156-60	EXM 300/156-60	EXM 310/156-60
Nominal output P _{mpp}	280Wp	290Wp	300Wp	310Wp
Nominal voltage U _{mpp}	31,30V	31,58V	32,10V	32,40V
Nominal current I _{mpp}	8,96A	9,20A	9,41A	9,57A
Short circuit current I _{sc}	9,50A	9,66A	9,97A	10,05A
Open circuit voltage U _{oc}	39,50V	39,60V	39,80V	40,05V
Module conversion efficiency	17,20%	17,60%	18,35%	18,50%

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 monocrystalline high efficiency cells 156x156 mm (6")-4BB
Backside	Composite film
Frame	35 mm silver anodized aluminium frame

Power connection

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

Mechanical data

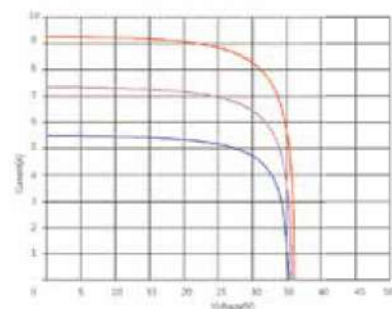
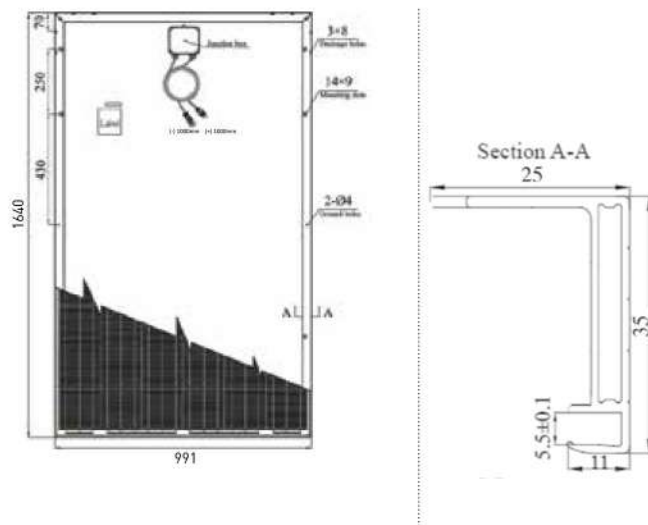
LxWxH	1640 x 991 x 35 mm
Weight	19,5 kg with frame

Temperature coefficient

Voltage U _{oc}	-0,30%/K
Current I _{sc}	+0,04%/K
Output P _{mpp}	-0,42%/K

Limit values

System voltage	1000VDC
NOCT*	45°C +/- 2K
Max. load-carrying capacity	5400 N/m ² tested to 8000 Pa
Reverse current feed I _R	16,0 A



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