

SOLON Black XT

Monocrystalline solar modules.



- › Recognized SOLON quality
- › High-performance monocrystalline modules
- › Efficiency of up to 14.9%
- › Positive binning of power classes (0 to +4.99 Wp)
- › 0.16 in. (4 mm) solar glass and twin-wall frame profile for highest load capacity
- › 10 year product guarantee
- › 25 year, 5-stage performance guarantee

SOLON Black XT

Electrical specifications – typical (STC)

STC (Standard Test Conditions): 1,000 W/m², 77 ± 3.6°F (25 ± 2°C), AM 1.5

Capacity rating	P _{max}	295 Wp	290 Wp	285 Wp	280 Wp
Module efficiency		14.90%	14.65%	14.39%	14.14%
Rated voltage	V _{mpp}	35.80 V	35.60 V	35.40 V	35.20 V
Rated current	I _{mpp}	8.26 A	8.16 A	8.06 A	7.96 A
Open circuit voltage	V _{OC}	44.50 V	44.23 V	43.96 V	43.69 V
Short circuit current	I _{SC}	8.66 A	8.59 A	8.51 A	8.44 A
Series fuse rating	I _R	15 A	15 A	15 A	15 A
Maximum system voltage	V _{DC}	600 V	600 V	600 V	600 V

Measuring tolerance for P_{max}: ±3%

Reduction of module efficiency from 1,000 W/m² to 200 W/m²: <4%

Electrical specifications – typical (NOCT)

NOCT (Nominal Operating Cell Temperature): 800 W/m², NOCT, AM 1.5

Capacity rating	P _{max}	212 Wp	208 Wp	204 Wp	201 Wp
Rated voltage	V _{mpp}	32.09 V	31.91 V	31.73 V	31.55 V
Rated current	I _{mpp}	6.59 A	6.52 A	6.44 A	6.36 A
Open circuit voltage	V _{OC}	40.22 V	39.98 V	39.73 V	39.49 V
Short circuit current	I _{SC}	6.99 A	6.94 A	6.87 A	6.81 A

Temperature coefficients (Tc)

Tc of open circuit voltage	-0.36 %/K
Tc of short circuit current	0.04 %/K
Tc of power	-0.47 %/K

Measuring tolerance for all final data: ±10% (except P_{max} (STC) and NOCT)

Mechanical specifications

Dimensions (H x W x D)	77.95 x 39.37 x 1.65 in. (1,980 x 1,000 x 42 mm)
Weight	66.14 lbs (30 kg)
Junction box	1 Tyco junction box with bypass diodes
Cable	PV wire, length 43.31 in. (1,200 mm), 12 AWG (4 mm ²), prefabricated with Tyco Solarlok connector
Front glass	Transparent tempered safety glass, 0.16 in. (4 mm)
Solar cells	72 cells, monocrystalline, 6.14 x 6.14 in. (156 x 156 mm)
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Back side	White composite film
Fire class	C
Frame	Anodized aluminium frame with twin-wall profile and drainage holes

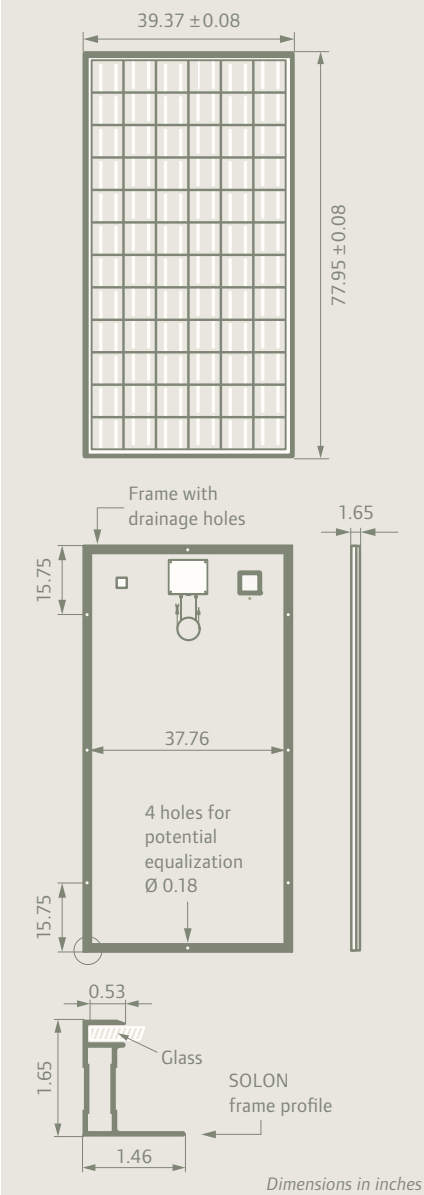
Permissible operating conditions

Temperature range	-40°F to + 185°F (-40°C to + 85°C)
NOCT	118.4°F ± 3.6°F (48°C ± 2°C)
Maximum surface load capacity	Tested up to 5,400 Pa according to IEC 61215 (advanced test)
Resistance against hail	Maximum diameter of 1 in. (25 mm) with impact speed of 51.5 mph (23 m/s)

Guarantees and certifications

Product warranty	10 years ¹⁾
Performance guarantee	Guaranteed output of 95% for 5 years, 90% for 10 years, 87% for 15 years, 83% for 20 years and 80% for 25 years ¹⁾
Approvals and certificates	UL and UL-C listed, CEC and FSEC registered

Drawing



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