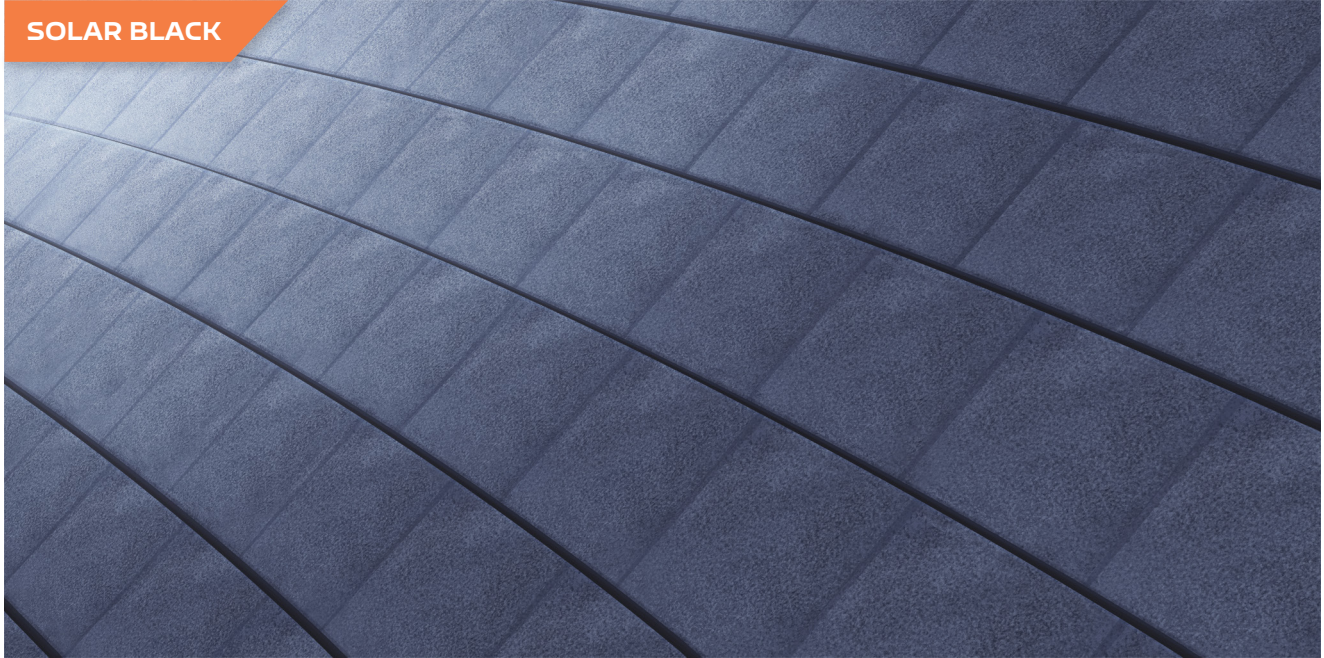


# X-CURVE Photovoltaic System

## SOLAR BLACK



### General Characteristics

Dimension PV slates	975 × 880 × 9 mm
Solar cell type	Monocrystalline silicon cells
Laminate structure	Glass   EVA   Cells   EVA   Glass
Junction box	IP65 or better
Bypass diode	Three diodes per shingle
Connection cable	Solar cable 4 mm <sup>2</sup>
Connector	MC4 compatible
Glass thickness	3mm (front glass) + 3mm (back glass)
Glass properties	Tempered solar safety glass (ESG)
Weight	4.4 lbs/ft <sup>2</sup> or 21.5 kg/m <sup>2</sup>
Temperature range	-40°C to +85°C

### Electrical Properties at STC (1000 W/m<sup>2</sup>, 25°C and AM 1.5)

Type of module	Black shingle
Nominal output (Pmpp)	150 Wp
Voltage (Umpp)	29.96 V
Current (Impp)	5.04 A
Open circuit voltage (Uoc)	34.85 V
Short circuit current (Isc)	5.29 A
Maximum system voltage	1000 V DC
Reverse current overload	20 A
Tolerance nominal output	± 5 Wp

### Temperature coefficients

Temperature coefficient voltage (Uoc)	-0.19 %/K
Temperature coefficient nominal output (Pmpp)	-0.39 %/K
Temperature coefficient short circuit current (Isc)	+0.05 %/K

### Quality and Warranty

Product guarantee	10 years
Performance guarantee	10 years at 90% of the nominal output 25 years at 80% of the nominal output
Quality and Certification	IEC 61215:2021 IEC 61730:2021 Fire rating Class 1 (UNI 9177)

Certified pressure load	5400 N/m <sup>2</sup>
Accessibility	Can be accessed without any guarantee restrictions