



INNORE SOLAR



Balcony Railings with Solar Panels

Electrical parameters

Standard Test Conditions (irradiance 1000 W/m², spectrum AM 1.5, cell temperature 25 °C)

Maximum Power	P _{mpp} (W)	193
Power Tolerance		0...+5 W
Module Efficiency	(η)	18
Max Power Voltage	V _{mpp} (V)	23
Max Power Current	I _{mpp} (A)	8.4
Open Circuit Voltage	V _{oc} (V)	27.3
Short Circuit Current	ISC (A)	8.8
Max System Voltage	VDC	1000
Max Current	(A)	15

Mechanical parameters

Number of Cells	42
Cell Technology	Mono C-Si
Cell Size	156.75 x 156.75 mm
Railing Material	Aluminium powder painted
Front and Back glass	4 mm tempered glass
Dimensions	1089 x 1262 mm
Weight	32.6 kg
Solar Panel Measurements	1020 x 1226 mm
Solar Panel Weight	25.9 kg
Column Weight	2.7 kg
Handrail Weight	1.3 kg
Connectors	MC4 IP67
Junction Box	IP67, one bypass diode
Operating Temperature	-40 °C ... +85 °C
Environmental Class	C4

Safety

- Innore Solar balcony railings with solar panels completed and passed Electrical Shock Hazard Tests by Kiwa Inspecta Estonia OÜ according to standard EVS-EN IEC 61730-2:2018.
- Balcony railing complies with the railing requirements.
- The manufacturer declares in a declaration of conformity, that the product complies with the directives of the European Union.

Warranty

- Product warranty: 5 years for defects
- Linear power warranty: 80% power output after 25 years
- Balcony railings estimated useful lifetime is 25 years

INNORE OÜ

Ringtee 41, 50105, Tartu, Estonia

e-mail: info@innore.eu

www.innore.eu/solar

Certificates and memberships



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Disclaimer: Parameters are based for one standard solution which is not accordance to customized solution made for customer. Information may be subject to changes without prior notification. This datasheet is not legally binding.