

Solar power system perfectly integrated into the roof

The SCHOTT InDaX™ V 175 system converts solar energy directly into electricity – without noise, emissions or polluting residues. The solar modules are designed specifically for the integration in pitched roofs and have two functions: production of solar electric power and long-lasting, weather-resistant roof covering.

The system is highly rain-proof and has a very good rear-ventilation. The modules are connected in series by shock-proof, non-interchangeable plugs and sockets ready for connection. Modules, all the electrical cables and contacts correspond to protection class II. The SCHOTT InDaX™ V 175 modules are certified in compliance with the IEC 61215 test specification.

- Qualification in accordance to DIN V EN V 1187
- System approved for water tightness according to NEN 2778, chapter 5
- Certificate TÜV Rheinland, IEC 61215
- Protection Class II



SCHOTT InDaX™ V 175

Product specification

Material

Solar module:	Specially hardened glass, glass-foil module, multi-crystalline solar cell
Assembly:	Solar modules with racking: connection using double proofed connector-rails and power-coated covering-rails.
Rubber seal:	EPDM, UV-resistant, weather-proof
Subconstruction & Roof edging:	Profiles made of weather-resistant aluminium

Solar module ⁽¹⁾

Max. Power Output	P_{mpp}	175 Wp
Nominal current	I_{mpp}	4.87 A
Nominal voltage	U_{mpp}	35.9 V
Short circuit current	I_{sc}	5.34 A
Open circuit voltage	U_{oc}	44.3 V
Max. system voltage		1000 VDC
Dimensions		0.85 m x 1.70 m
Weight (approx.)		25 kg (incl. module base)
Module colour		blue

⁽¹⁾ Nominal power under Standard-Test-Conditions (STC): AM 1,5; $E = 1000 \text{ W/m}^2$; $T_c = 25^\circ\text{C}$; The rated power may only vary by $\pm 4\%$ and all other electrical parameters by $\pm 10\%$.

Temperature coefficients

Power	$T_k (P_n)$	- 0.47 % / °C
Open-circuit voltage	$T_k (U_{oc})$	- 0.38 % / °C
Short-circuit current	$T_k (I_{sc})$	+ 0.10 % / °C

Unit pack

Solar modules SCHOTT InDaX™ V 175, fittings, installation and operating instructions.

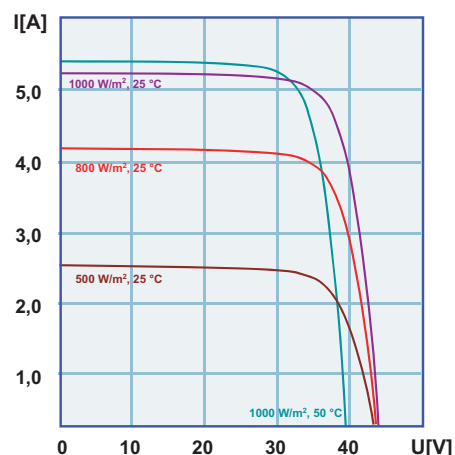
Fitting and Installation

The laying and circuit connection of the solar modules is carried out by the roofer, with the electrical installation being carried out by an approved electrical contractor.

Minimum roof pitch: 25°

Condition for the installation is a roof system with counter batten and roof batten.

Please consider the valid installation manual.



Current/voltage characteristics with dependence on irradiance and module-temperature.

