Solar power system perfectly integrated into the roof

InDaX®-100

The InDaX®-100 system converts solar energy directly into electricity – without noise, emissions or polluting residues. The modules are specially designed to be integrated directly into pitched roofs replacing conventional roof tiles.

As well as being a solar electricity generator, the InDaX®-100 system also serves as a durable, weather-resistant roof covering. The system has been designed both to be used in new buildings and also to be retro-fitted to existing buildings with roofs of battens and tile construction. Modules can be arranged in either rectangular blocks, in rows, or in stepped formations. The InDaX®-100 system can also be linked to the national grid.

Dependent on the roof dimensions the configuration of the InDaX®-100 system is highly flexible. Starting with a basic unit of 10 m^2 (1 kWp installed power = 10 modules InDaX®-100), the system can be extended to sizes of 50 m^2 (5 kWp installed power = 50 modules InDaX®-100) and above.

Typical one-family home solar power systems are in between 10 and 100 m^2 PV area.

For ease of assembly and in the interests of safety, the InDaX®-100 modules are mechanically fixed to a metal profile subconstruction and in turn to the roof battens. The InDaX®-100 roofing system offers a bespoke and long-lasting weather-proof roof covering.

Due to the positioning and the optimised overlap area of the modules, condensation can effectively be routed out of the area underneath the modules.

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 InDaX®-100 modules are certified in compliance with the IEC 61215 test specification.

RWE SCHOTT Solar

Product specification

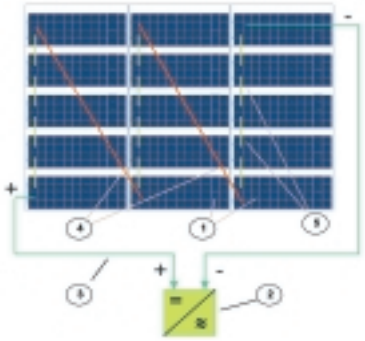
Material

Solar module:	Specially hardened glass, durably encapsulated
Module bracket:	High-grade steel
Subconstruction & Roof edging:	Profiles made of weather-resistant aluminium

Standard Packages [1]

Standard System Kits using 15 modules (15 m^2 = 1,5 kWp installed power), 24 modules and 36 modules.

[1] Additional system kits of any output category and number of modules available on request.



Typical solar power system

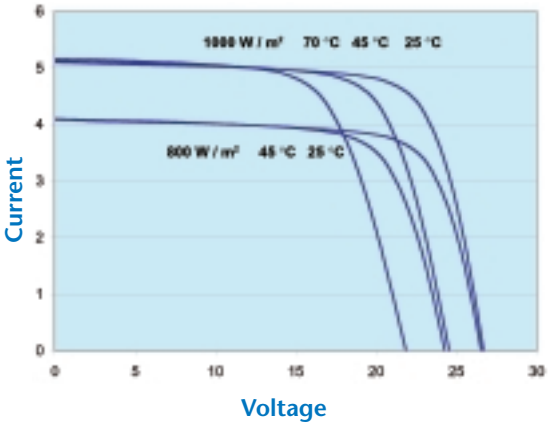
1. *15 modules ASE-100-InDaX®*
2. *Inverter*
3. *Electrical cables connecting module field and inverter*
4. *Electrical cables connecting module columns*
5. *Electrical cables connecting modules*

Solar module

Max. Power Output P_{mpp}	100 Wp [2]
Nominal current I_{mpp}	4,54 A
Nominal voltage U_{mpp}	22,00 V
Short circuit current I_{sc}:	5,05 A
Open circuit voltage U_{oc}	26,80 V
Max. system voltage	750 V_{DC}
Open circuit voltage U_{oc} at Tc = –10°C	30,3 V
Nominal voltage U_{mpp} at Tc = +70°C	17,3 V
Module width	1,48 m
Module hight (total=including overlap)	0,66 m
Module hight (net = installed)	0,58 m
Module area (net = installed)	0,86 m^2
Weight (approx.)	9 kg
Module colour	blue

[2] Nominal power under Standard-Test-Conditions (STC): AM 1,5; E = 1000 W/m^2; Tc = 25°C; Output tolerance +/- 5%.. The rated power may only vary by ± 5% and all other electrical parameters by ±10%.

Current-Voltage-Characteristic curve



Unit pack:

Solar modules ASE-100-InDaX®, 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.

Laying:

No additional materials or special tools are required.

RWE SCHOTT Solar GmbH
Carl-Zeiss-Str. 4
63755 Alzenau
T +49 (0) 60 23 / 91-05
F +49 (0) 60 23 / 91-17 00
E sales@rweschottsolar.com
I www.rweschottsolar.com

RWE SCHOTT Solar

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