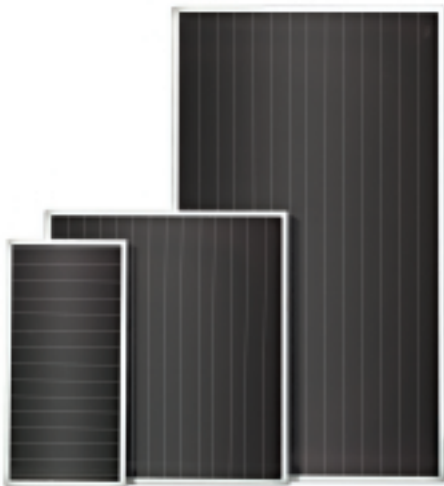
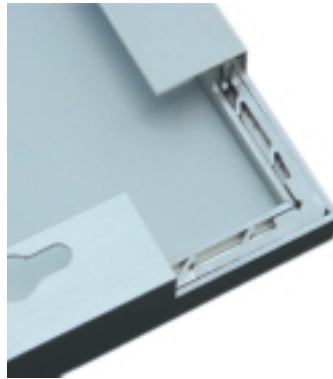


ASI®-F 2-10/12

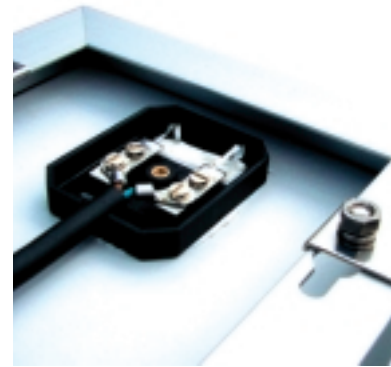
Solar Modules for 12 V-Applications



ASI®-F 2-10/12



Robust encapsulation



Optional connection kit

- More Energy
- Excellent value for money
- Robust encapsulation
- Easy mounting
- 10 years power warranty
- IEC 61646 certified

ASI®-F solar modules are available as power class 2 - 32 Wp. The ASI®-Technology with its special stacked-cell design on the basis of silicon thin film guarantees years of unflinching high performance. Unflinching high performance. Each type of module is ready for mounting, and all parts, from the frame to the junction box, are designed for easy and inexpensive system integration. Typical applications of a 12 V system are lighting, traffic systems, telecommunication, safety technology, mini solar home systems, consumer and leisure products. The future-oriented ASI®-Technology is the result of many years of experience, the latest know-how, and modern manufacturing processes. ASI®-F modules combine state-of-the-art solar module technology with proven encapsulation, offering decisive advantages:

More energy: Independent surveys have shown that - under realistic conditions such as unfavourable lighting situation or high temperature - our ASI®-technology produces approximately 20% more energy per rated Wp than crystalline modules.

Excellent value for money: The optimal use of raw materials and automated manufacturing processes ensures favourable prices, high performance and environmental viability for all ASI®-F modules.

Robust encapsulation: The proven ASI®-F encapsulation ensures high resistance against UV, temperature and weather, even in the most extreme conditions. The torsion-proof aluminium dished frame with integrated corner links offers optimal protection against mechanical wear or damage.

Simple mounting: All ASI®-F modules have a junction box for variable circuiting. The oblong holes in the aluminium frame allow easy and universal mounting.

Top quality and safety: The proven ASI®-F modules "Made in Germany" stand for high, stable performance and longevity:

- 10 years power guarantee
- IEC 61646 certified
- ISO 9001 and ISO 14001 certified production

Technical Data

Electrical data



	ASI-F 2/12	ASI-F 4/12	ASI-F 5/12	ASI-F 8/12	ASI-F 10/12
Initial Nominal Power [Wp]	2.6	4.7	6.3	9.5	12.5
Nominal Power P_{nom} [Wp]*	2.1	3.9	5.2	7.8	10.3
Voltage at nominal power U_{mpp} [V]*	16.8	16.8	16.8	16.8	16.8
Current at nominal power I_{mpp} [mA]*	125	232	309	464	613
Short-circuit current I_{sc} [mA]*	165	293	398	602	808
Open-circuit Voltage U_{oc} [V]*	22.8	22.8	22.8	22.8	22.8

The quoted figures are subject to a production tolerance of $\pm 10\%$.

* These data represent stabilized electrical module performance at standard test conditions (STC – 1000 W/m², spectrum AM 1.5, 25°C cell temperature). The nominal power may be initially approx. 18 % higher than the quoted stabilised power data.

Dimensions and weights



Size [mm]	X	144	249	330	293	330
	Y	293	293	293	493	581
	Z1	114	219	300	263	300
Weight [kg]	Z2	180	180	180	380	468
		0.6	0.9	1.2	1.6	2.1

Tolerances ± 2 mm

Temperature coefficients



Temperature coefficient [%/K]	P_{mpp} : -0.2 ; U_{oc} : -0.33 ; I_{sc} : 0.08
	The temperature dependence of the nominal power rating is especially low

Limits

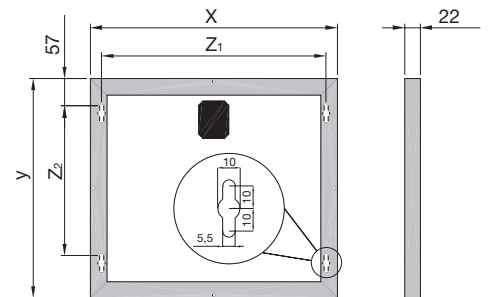


Permissible temperature [°C]	-40° to +85°
Typical operation temperature [°C]	approx. 20° to 25° above ambient temperature

Specifications are subjected to change without notice.



Qualification	IEC 61646 certified
	CE conformity



MANAGEMENTSYSTEM
 Certified by DQS according to
 DIN EN ISO 9001:2000 · Reg.-No. 2184
 DIN EN ISO 14001:1996 · Reg.-No. 2184
 IECQ approval of manufacturer

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