

ASCA[®] Inlay

Fully customizable in terms of design, shape, size and color to best suit each project.

Organic photovoltaic products take in light and deliver power. When integrated into solutions, this direct current (DC) electrical energy can be used as is or stored for later use.

- › User friendly design
- › Easy combination with various materials
- › Sustainable solution
- › Made in Europe

Technical information given for an OPV (Organic Photovoltaic) module with an active surface of 1m².



GENERAL INFORMATION

OPV inlay thickness	0.3 +/- 0.1 mm
Operating temperature range	-20 °C to 65 °C
Storage temperature	-40 °C to 85 °C
NOCT	48 °C

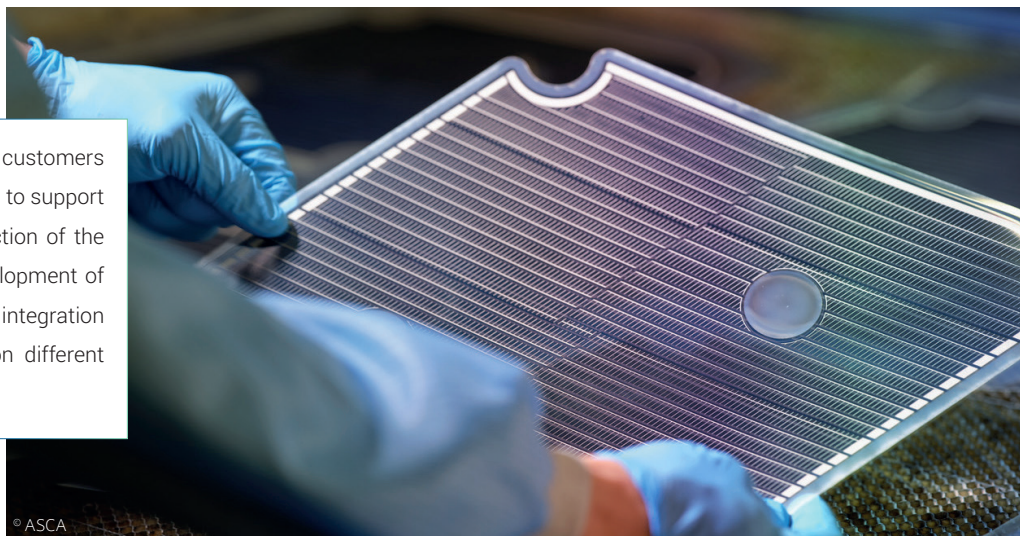
ELECTRICAL CHARACTERISTICS AT STC*

Short circuit current	1.0 – 9.6 A	0.8 – 8 A	0.7 – 7 A	1.1 – 10.5 A
Open circuit voltage	0.76 V / Cell	0.76 V / Cell	0.55 V / Cell	0.76 V / Cell
Current at MPP**	0.7 – 7.1 A	0.6 – 5.8 A	0.5 – 5.1 A	0.8 – 7.8 A
Voltage at MPP**	56 – 5.6 V	55 – 5.5 V	40 – 4.0 V	56 – 5.6 V
Power at MPP**	35 – 45 W	35 – 45 W	20 – 30 W	35 – 45 W

TEMPERATURE COEFFICIENT (based on 25°C)

Temperature coefficient Pmax	+0.02 %/°C	+0.04 %/°C	+0.05 %/°C	+0.04 %/°C
Temperature coefficient Vmpp	-0.23 %/°C	-0.17 %/°C	-0.11 %/°C	-0.17 %/°C
Temperature coefficient Voc	-0.19 %/°C	-0.11 %/°C	-0.17 %/°C	-0.16 %/°C

We make the ideas of our customers come true! Our teams are able to support you in the design and production of the modules, but also in the development of the electrical system and the integration of ASCA® solutions in and on different materials and surfaces.



*STC: "Standard Testing Conditions" ** MPP: "Maximum Power Point"
 The exact electrical characteristics depend on the final OPV panel design and the number of cells connected in series. The specifications are average values and may slightly vary (+/-10%). The associated individual test date is authoritative. Technical specifications are subject to change without notice. Publication June 2022.