



Solar Panels for Aerospace Applications

OVERVIEW

Cubesat compatible (1U, 2U, 3U, 6U, 12U, 16U).

Customized sizes in honeycomb substrates, polyimide, aluminum.

Manufactured according to ESA standard ECSS-E-20-08C.

FEATURES

Electronic components qualified for military or aerospace applications. Rad-Hard components.

Designed and manufactured with space-qualified materials offering customized solutions for your mission.

Solar cell assemblies with Triple Junction on Ge substrate (29-30% efficiency).

Covered Interconnected Cell (CIC) with integrated bypass diode and coverglass, aerospace qualified.

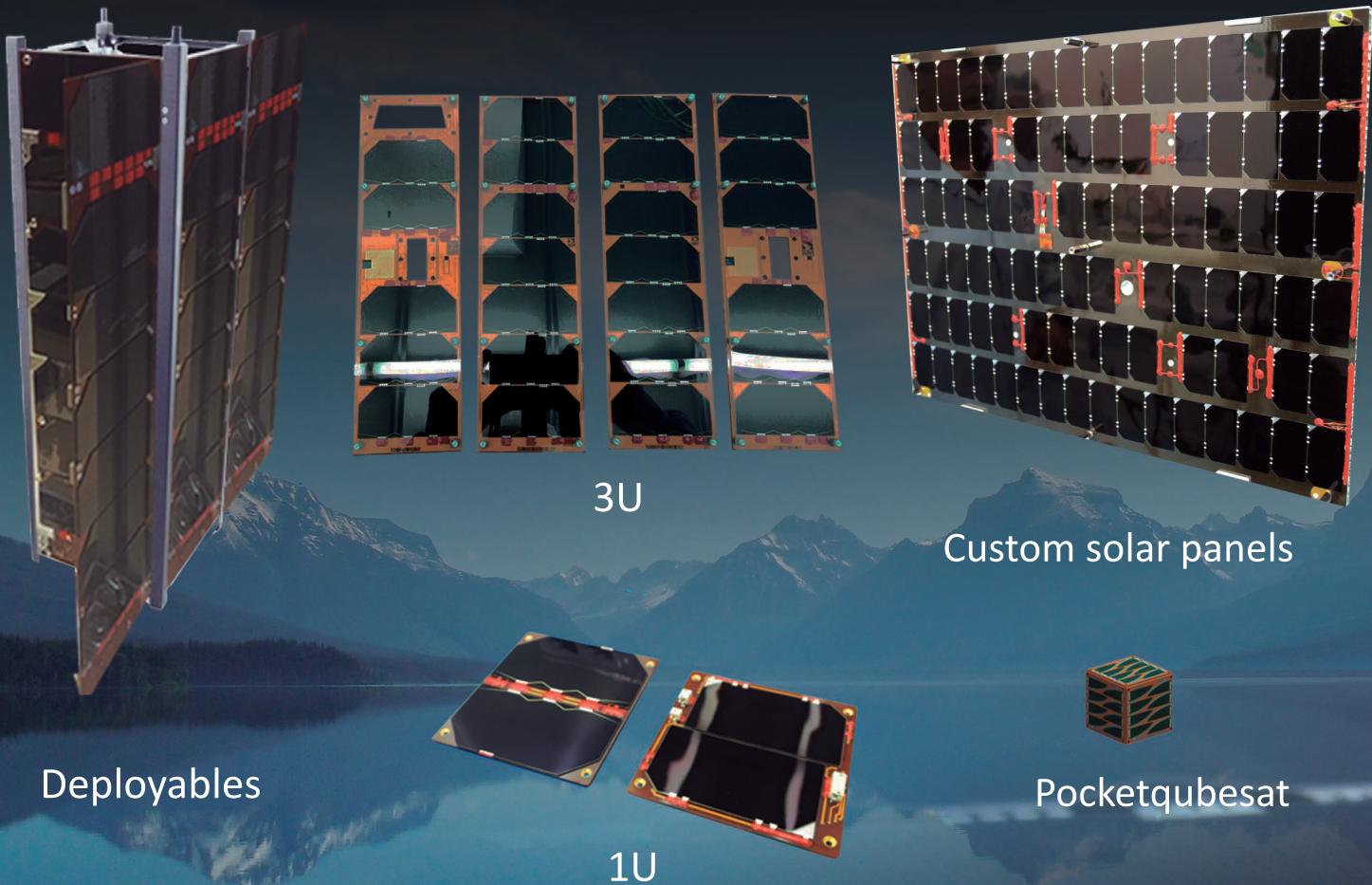
No wiring on panel. PCB substrate manufactured in conformance with ECSS-Q-ST.

Customized design solar panels according to customer needs and deployable solar panels.

Integrated sensors into PCB substrate, as magnetometers, temperature and sun sensors.

Testing capabilities: random, shock, acoustic, TVAC, thermal cycling, illumination, deployments.

Substrates: Polyimide, FR4, aluminum, honeycomb aluminum, carbon fiber.



DHV Technology is a ISO 9001 and
ISO 14001 certified company.

www.dhvtechnology.com

Parque Tecnológico de Andalucía, Av. Juan López Peñalver 21, 29590, Málaga, Spain

00 34 951 956 837

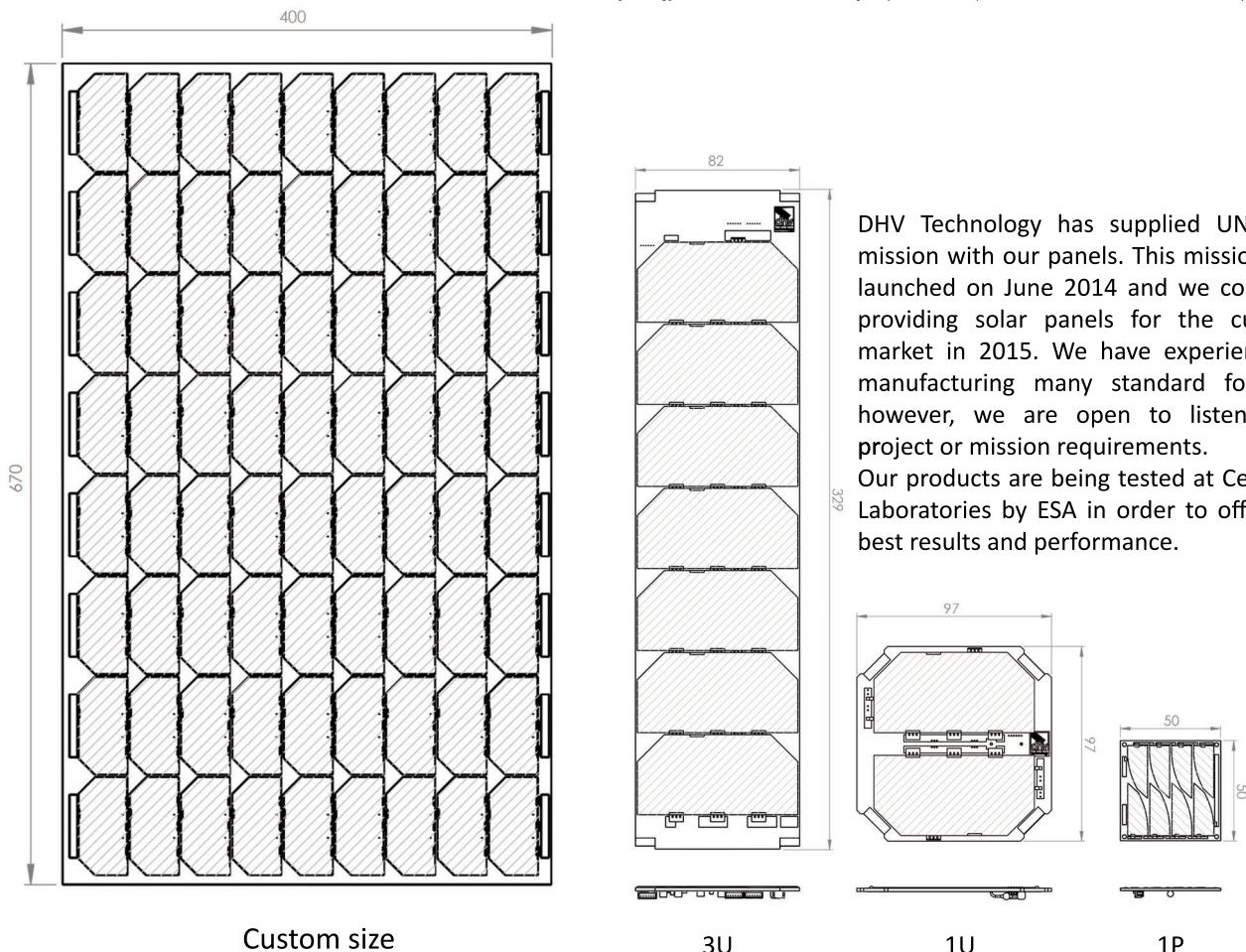
dhv@dhvtechnology.com



*Design and
Manufacturing
Photovoltaic Assemblies
for Space*

	Pocketqubesat	1U	3U	Custom
Power (AMO WRC) 1367 W/m ² ; T = 28 °C	272 mW	2,42 W	8,48 W	From 1,21 W to (n) SCA's
Part Number	SPC-PQ1P	SPC-CS10	SPC-CS30	SPC-CSP
Sensors	Magnetometer Temperature sensor Sun Sensor	Magnetometer Temperature sensor Sun Sensor	Magnetometer Temperature sensor Sun Sensor	Magnetometer Temperature sensor Sun Sensor
Mass (1,6 mm PCB without sensors)	23 g	39 g	132 g	Please contact us!

Please contact us for different or custom sizes for your solar panel. SCA is Solar Cell Assembly



DHV Technology has supplied UNISAT-6 mission with our panels. This mission was launched on June 2014 and we continue providing solar panels for the cubesat market in 2015. We have experience in manufacturing many standard formats, however, we are open to listen your project or mission requirements. Our products are being tested at Certified Laboratories by ESA in order to offer the best results and performance.

The SCA series connection can reach voltages up to 16 V in a 3U size. The string can be placed either on honeycomb or PCB substrates using a space grade film adhesive with ultra low outgas properties. This adhesive is made of silicone free or highly viscosity components which ensures a strong bonding. The SCA string is connected to the EPS in the satellite using a 4-6 pins harness. Power and ground lines only use two pins and the rest of them may be used for magnetometers or temperature sensors. Solar Panels are supplied with a protective Kapton overlay on the surface. The PCB substrates are made in conformance with ECSS-Q-ST-70-11C. Solar panels are manufactured following the standard ECSS-E-ST-20-08C.



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