



SPACEMANIC

# Solar panel RA

## First class panel

SM-SP-RA

Using the power of mighty God RA!  
First Class solar panels for nano-satellite and small satellite missions.

### FEATURES

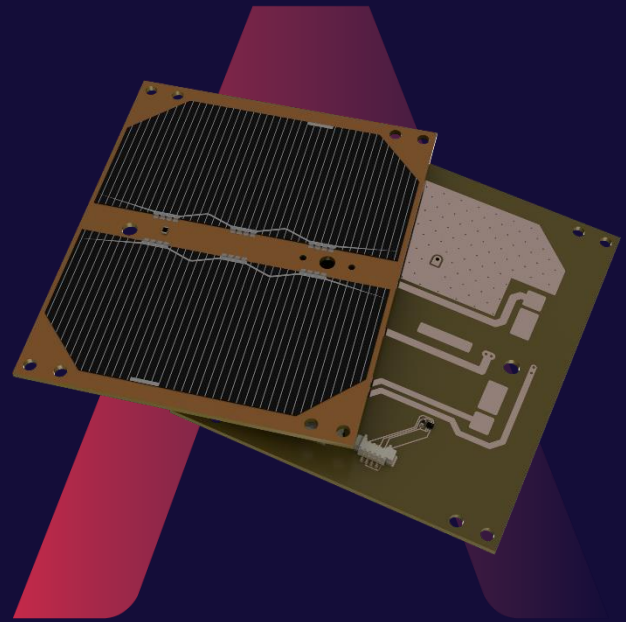
- Compatible with several cubesat vendor structures and EPSs
- LEO rated at 2.3 Watts (1U side panel)
- Compliant to cubesat standard
- Options for sensor and interface accommodation
- Space grade protection diode

### PRODUCT PROPERTIES

- Operating temperature:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Mass: 50g (1U)
- Thickness: up to 2mm
- Different kinds of substrate available

### FUNCTIONAL CHARACTERISTICS (1U)

- Open circuit voltage ( $V_{oc}$ ): 5.4V
- Short circuit current ( $I_{sc}$ ): 0.52A
- Max power voltage ( $V_{mp}$ ): 4.82V
- Max power current ( $I_{mp}$ ): 0.5A



### AVAILABLE OPTIONS

- Size: 1U-12U (side, top)
- Custom design with different cell layout, sensor mounts
- Extra copper layer for radiation shielding
- Fake panel (without solar cells)

### TESTING & HERITAGE

- Flight Heritage Hardware
- Vibration / Mechanical Shock / Thermal Vacuum tests
- Radiation Tolerance: 2years min in LEO