Developped with support of

cnes

HEMERIA designs and produces solar arrays systems for new generation of operational space systems, used for science, commercial and defence small satellites platform.

Solar array product from substrate, PVA, HDRM and hinges mecanisms

A reliable solution fully designed, qualified, manufactured and integrated in-house. 🗱 From 30 to 1 KWatt

ጰ Fast delivery

very

🗙 Fast repair process

and Exploration.

🗱 Application for LEO, GEO,

8 years in orbit lifetime

Eri

hemeria

solar arrays

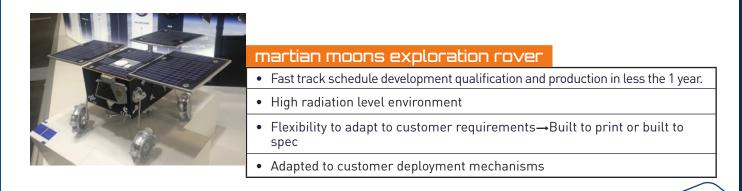
heritage

 180 SOLAR ARRAYS FOR IOT CONSTELLATION OF 25 NANOSATELLITES KINEIS
 MARTIAN MOONS EXPLORATION ROVER SOLAR ARRAYS

solar arrays

| | general specifications | | | |
|--------------------|---|--|--|--|
| Number of panels | • 1-3 panels per wing | | | |
| Range | 30 to 1 KWatt Highly scalable to customer power needs | | | |
| Cells | • Azurspace AZUR 3G30A / Spectrolab XTE CIC | | | |
| Lifetime | • Qualified for 8 years in LEO, Qualification for 3 years in GEO under progress | | | |
| Electrical I/F | • Sub D connector or flying leads | | | |
| Orbit | • LEO, GEO, MEO, Exploration | | | |
| Lead Time | Design / qualification (if required) : 2 to 3 months Production and acceptance tests 6 to 9 months | | | |
| Substrate | CFRP skin with aluminum honeycomb panel | | | |
| Mechanisms | Fitting SADM (information on demand) HEMERIA own development for mechanisms (HRM, Hinges) or accommodation to customer request | | | |
| Repair | Qualified repair processes | | | |
| Stowed frequencies | • > 100Hz | | | |
| Mass | Mechanisms 0,5Kg for a wing of 3 panels Panel + PVA : 3,4Kg/m² | | | |
| Loads | >15g quasi static design load >15grms random vibration | | | |

| | | | small | sats solar array example | | |
|-----------|-----|-------------|-------|--------------------------|--|------|
| Substrate | PVA | Solar Array | | Solar Array | | Wing |
| P. 0. 0. | | | | | | |



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