



hemeria



OBSERVATION



COMMUNICATION

# Solar arrays LEO, MEO, GEO & exploration

A reliable & proven solution   Lifetime of 8 years   Integration on client site   From 30 W to 1 KW

HEMERIA designs and builds solar arrays for all types of spacecraft, nano or micro satellites, rovers and transfer vehicles.



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Heritage: solar arrays for the KINEIS constellation (180), and for the Idefix rover (MMX)

### General specifications

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

### Idefix rover - Mars exploration

- Fast track schedule development qualification and production in less than 1 year
- High radiation level environment
- Flexibility to adapt to customer requirements: built to print or built to spec
- Adapted to customer deployment mechanisms



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