

support of



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







A reliable solution fully designed, qualified, manufactured in integrated internally.





heritage

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



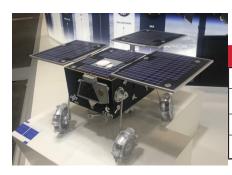
solar arrays

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		

smallsats solar array example

Substrate	PVA	Solar Array	Wing
8			



martian moons exploration rover

- Fast track schedule development qualification and production in less the 1 year.
- High radiation level environment
- Flexibility to adapt to customer requirements => BTprint/BTspec.
- Adapted to customer deployment mechanisms



