

Solar Array Wing



Outline

Type	Deployable
Size Chaser : Stowed	1.5m x 1.8m x 0.3m
	Deployed 8.7m x 1.8m x 25mm
Target : Stowed	1.4m x 1.2m x 0.3m
	Deployed 14m x 1.2m x 25mm

Heritage

- ETS-VII

Characteristics

- Lightweight sandwich type panel substrate with thin (less than 0.1 mm) high modulus graphite epoxy faceskin.
- Highly reliable welding inter cell connection by automatic welding machine
- Silverized teflon sheet on the backside of the substrate
- Protection against atomic oxygen
- Protection against shadowing on solar cell circuit

Performance Summary

<u>Items</u>	<u>Description</u>	<u>Remarks</u>
weight	Chaser:132.8kg/2 wings Target :41.2 kg/1 wing	
Power	Chaser:3.1kw(BOL) Target :0.9 1kw(BOL)	
Stiffness	Stowed Chaser:32Hz Target :40Hz Deployed Chaser:0.2Hz Target :0.38Hz	