SolAero TECHNOLOGIES

ROCCOR

SolAero and Roccor have teamed together to provide advanced solar array solutions for SmallSats and CubeSats

Over 3.5 million flight solar cells delivered!

COBRA-SS & COBRA-1U

Composite Beam Rollout Array for SmallSats/CubeSats

The COBRA design offers the best features of flexible blanket and rigid panel technologies by integrating solar cells directly to the roll-able lenticular beam. This state-of-the-art technology provides an ultra-lightweight solution for generating solar power with a simple, reliable deployment, an advanced high-performace graphite composite structure, and the highest efficiency commercially available photovoltaic cells.

COBRA-SS for SmallSats

- The COBRA-SS offers SmallSat developers a range of high performance solar array size and power options (up to 600 W) based on SolAero's high efficiency (29.5%) space-proven ZTJ triple-junction solar cells.
- COBRA-SS achieves the highest stowed power density for launch (>40 W/m^3).
- Turnkey deployable COBRA achieves specific power exceeding 150 W/kg.
- Linear deployment and retraction offered in single or dual wing configurations.

COBRA-1U for CubeSats

- COBRA-1U provides an approach to supplying power at a level higher than ever before, with a self-deploying design delivering up to 100 W of peak prime power.
- Utilizes SolAero's thinned 29.5% efficient ZTJ triple-junction solar cells.
- COBRA-1U design offers wide applicability from 1U to 3U or larger CubeSats with consistently high performance.
- Available central cylinder volume for other CubeSat functions, such as integrated power electronics and battery contained within the COBRA Power System Module.

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