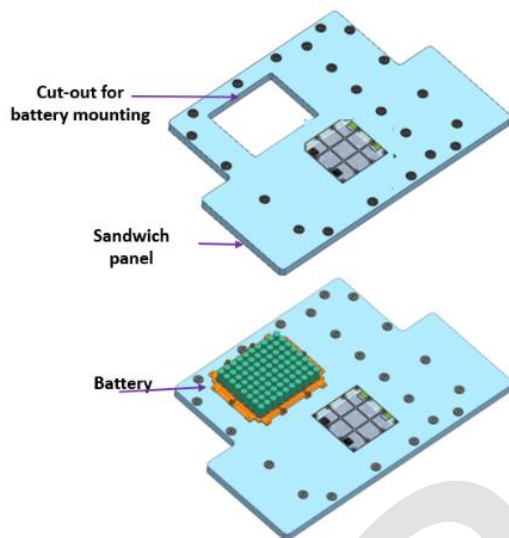


Embedded Battery for Microsatellite bus

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed Embedded battery in Sandwich Panels for Microsatellite bus configuration.



Salient Features

- ❖ Parasitic volume occupancy & weight of the battery module is reduced.
- ❖ Single battery interface plate for mounting on to the sandwich panel.
- ❖ Adopts thermal control elements on the interface plate.
- ❖ Battery can be fabricated and tested independently similar to conventional way.

Description

- ✦ Battery interface plate holds the cells, interconnection of cells, mounting of thermal control elements and also enables mounting on to the sandwich panel.
- ✦ No impact on battery temperature limits and can be well controlled during mission.
- ✦ Battery structural mass reduction of >50% and parasitic volume requirement is reduced by 20%.
- ✦ System is qualified for usage in Microsatellite bus configuration.

Technology Transfer

URSC-ISRO offers to transfer this technology Embedded battery for Microsatellite bus configuration by URSC to industries in India with adequate experience and facilities. To manufacture, industries must have the knowledge of batteries, sandwich panel structure, cleanroom, thermal control interfaces etc., Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

Technology Transfer & Industry Coordination Division (TTID),
Programme Planning and Evaluation Group (PPEG),

📍 U R Rao Satellite Centre (URSC), ISRO, HAL Airport Road,
Vimanapura Post, Bangalore – 560 017.

✉ Email-id: tt-icd@ursc.gov.in

🌐 <https://www.ursc.gov.in/industry/index.jsp>