

Bypass Switch for Lithium ion Battery

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has indigenously developed bypass switch for Lithium ion batteries.

Salient Features

- ❖ High Reliability and long service life.
- ❖ Low switch resistance.
- ❖ Make before break (Single pole double throw-SPDT).
- ❖ Light weight.
- ❖ Wide operating temperature range.

Major Description

- ✦ Bypass switches are connected in parallel across the battery module. This is essential to take care of open mode cell failure. It needs to be reliable as it is connected across live cell.
- ✦ Productionisation through Indian industry is cost effective.
- ✦ Bypass switch is already qualified in-house at URSC.

Technology Transfer

URSC-ISRO offers to transfer this technology of indigenously developed bypass switch by URSC to industries in India with adequate experience and facilities. To manufacture, industries must have the knowledge of batteries, electromechanical relay or switch etc., Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

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