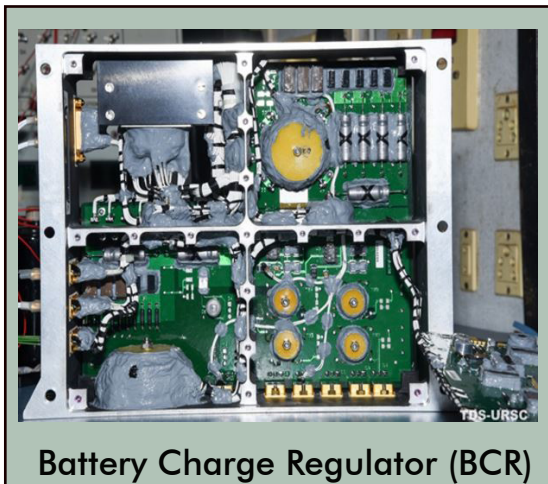


Battery Charge Regulator (BCR)

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed Battery Charge Regulator (BCR) for battery charging and bus regulation. Battery charge regulator (BCR) is designed with Constant Current-Constant Voltage (CC-CV) and BUS priority loop to cater to LEO as well as GEO Satellites. The main feature of the BCR is that it has a mechanism to give priority to the load requirements in preference to battery charging whenever there is a power generation deficit in the solar array.



Battery Charge Regulator (BCR)

Salient Features

- ✦ Standardization of solar panel design.
- ✦ Automatic load priority.
- ✦ Adaptability to any charging profile.
- ✦ Powering Frangie bolt type EED events.
- ✦ Capacity expansion by paralleling similar units.

Major Specifications

✦ Dimensions (L × W × H)	:	286×70×212 [mm]
✦ Mass	:	2500 gram
✦ BUS Voltage	:	71 Volts
✦ Power Dissipation @ BCR Pout =700W	:	< 30 Watt
✦ Current TM	:	0-5V
✦ Output Current (Selectable)	:	0 -> 10A (00H -> FFH)
✦ Output Voltage (Selectable)	:	0 -> 67.2V (00H-> FFH)
✦ Output Power Capability	:	800Watt (Max)
✦ Efficiency @ BCR Pout =700W	:	>95%
✦ Output Current	:	10A
✦ Over Current Protection	:	> 12A

Technology Transfer

URSC/ISRO offers to transfer this technology of Battery charge regulator developed by URSC to industries in India with adequate experience and facilities. 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,
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🌐 <https://www.ursc.gov.in/industry/index.jsp>