## Eddy Current Damper

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed Eddy current Damper, a deployment rate control device. It is passive in nature and makes use of the resistive eddy currents developed when a nonmagnetic conductive disc rotates in a magnetic field. The damper employs a gear train to amplify the resistive torque generated. The damper is used to control the deployment rate of the solar array and bring down the latch up shock on the panels. The resistive torque developed is proportional to the rate of rotation of the disc and hence rate of deployment of the panels is self-regulating.



## **Specifications:**

- Very high damping rate.
- Wide temperature range.
- Non-contact type and good reliability.
- Good temperature stability.

Battery Discharge Regulator

## **Major Specifications**

Salient Damper Specifications	
Damping Rate	0.9, 2.2, 2.8 kgf-cm/rad/s
Mass	0.5 kg
Magnet Type	Samarium Cobalt
Gear Type	Spur Gear / Planetary

## **Technology Transfer from ISRO**

ISRO is willing to offer the knowhow of this technology to suitable entrepreneurs / industries in India. Capable manufacturing industries interested in acquiring this knowhow may write with details of their present activities, requirements and plans for implementation, infrastructure and technical expertise available with them, their own market assessment, if any, and plans for diversification to the address given below: