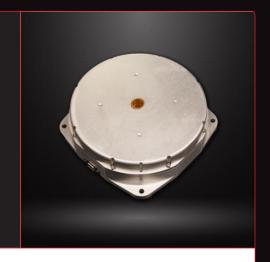
REACTION

RW-1.0 Data Sheet



MOMENTUM	Nominal: ±1.0 Nms
TORQUE	±100 mNm (see below torque-box)
CONTROL MODE	Speed or Torque
COMMAND/TELEMETRY	Redundant RS-485
MECHANICAL	Dimensions: 148 mm x 146 mm x 45 mm Mass: 1.4 kg max
IMBALANCE	Static: <4 g·mm (average 2 g·mm) Dynamic: <80 g·mm2 (average 25 g·mm²)
SUPPLY VOLTAGE	24 V to 34 V (nominal 28 V)
POWER (28 V in VACCUM)	5.5 W @ 1.0 Nms, steady state 43 W @ 1.0 Nms, +60 mNm torque 84 W @ 1.0 Nms, +100 mNm torque -28 W @ 1.0 Nms, -100 mNm regenerative braking
ENVIRONMENT	Thermal: -30° C to +85° C (operating) Random Vibration: 20.0 gRMS
RADIATION	TID: 50 krad (board level) Heavy Ion: Up to 50 MeV·cm2/mg on most active parts
FLIGHT HERITAGE	Total of 129 units on orbit across 2 generations, with cumulated 525 years since 2016

