AURORA
PROPULSION TECHNOLOGIES

DATASHEET | ARM-O HP

Aurora Resistojet Module - Orbit control

ARM Product line

ARM-A	**ARM-O**	ARM-C
ARM-AO	ARM-E	MEPE

ARM-O HP is the high-thrust version of ARM-O, in the same 0.6U and 1U envelopes and at the same mass. Two thrusters deliver 20 mN at beginning of life, at 4 W per mN, with higher thrust than ARM-O LP. It is built for manoeuvres that have to be finished quickly: collision avoidance, orbit corrections and drag compensation. The thruster heads are adjusted toward the centre of mass, and response is 2 milliseconds after a 60-second preheat. ARM-O HP is shipped fuelled with water: non-toxic, unpressurised at launch, and no operations at the launch site.



TECHNICAL SPECIFICATION

The below configurations are available without customization, but other configurations can also be built.

	Small HP	Medium HP
Form	0.6 U	1 U
Total impulse	120-150 Ns	250-300 Ns
Wet mass	0.7 kg	1 kg
# of thrusters	2	
Thrust	20 mN (BoL)	
Control interface	Either direct electrical interface, or digital through RS-422	
Power	4 W/mN	
Thrust vector	Thruster heads adjusted toward centre-of-mass	
Response time	Preheat 60 s, nominal mode 2 milliseconds	
Lead time	6-9 months	