AEROJET ROCKETDYNE
An L3Harris Technologies Company

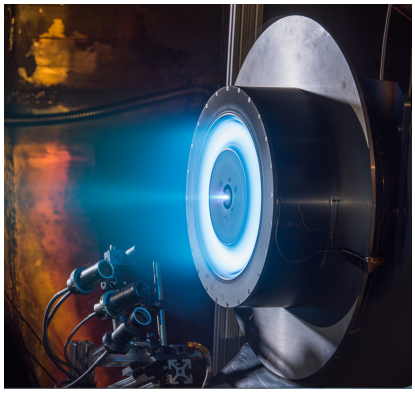
AEPS

Advanced Electric Propulsion System

SYSTEM PERFORMANCE	
Input Voltage Range	95V – 140V
Number of Cycles	5000
Total Impulse	10^8 N-sec
Efficiency	> 60% (at 13.3 kW system input power)
Mass	< 99 kg (including XFC and harnessing)
Life Capability	> 15 yrs

HALL THRUSTER	
Propellant	Xenon
Mass	< 47 kg
Envelope	530 mm (diam) X 210 mm (height)
Low Power Performance	390 mN, 1900 seconds (at 300V, 20.8A)
High Power Performance	600 mN, 2800 seconds (at 600V, 20.8A)
Efficiency	> 65% (600V, 20.8A)

POWER PROCESSING UNIT	
Mass	< 50 kg
Envelope	520 mm X 900 mm X 200 mm
Efficiency	> 94% (at 13.3 kW input power)
Command Interface	Mil-Std-1553B
Discharge Output Power	3.0 kW to 12.5 kW
Features	Flexible and automated startup, monitoring, and fault protection of Thruster and XFC



HIGH POWERED SOLAR ELECTRIC PROPULSION

Aerojet Rocketdyne's advanced electric propulsion system will significantly advance the nation's commercial space capabilities and enable deep space exploration missions.

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AEPS

L3Harris Technologies is the Trusted Disruptor for the global aerospace and defense industry. With customers' mission-critical needs always in mind, our 50,000 employees deliver end-to-end technology solutions connecting the space, air, land, sea and cyber domains.

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