



SATELLITE SYSTEMS

EPsYLON

Product datasheet

With over three decades of experience in various Electric Propulsion (EP) systems, OHB Sweden now presents a highly novel solution for the challenges and trends of today and tomorrow. EPsylon is a family of integrated EP modules that can operate at wide power and thrust ranges, serving both the institutional and commercial market.

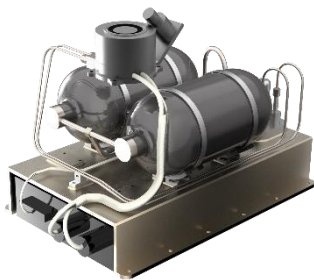
Variant	EPsylon S-Series (Single-String)		
	EPsylon Lite	EPsylon Star	EPsylon MAX
Design	Optimized for cost and lead time. Can be offered as a pre-filled module.	Optimized for versatility and performance.	Higher spectrum of performance and reliability. Facilitates GEO transfers and GEO missions.
Target Market	< 300 kg satellites, LEO	< 600 kg Satellites, LEO-GEO	< 1000 kg Satellites, LEO-GEO
Thruster	HET / HEMPT	HET / HEMPT	HET / HEMPT
Power	100 W to 400 W per String	100 W to 1 000 W per String	100 W to 1 000 W per String
Bus Input Voltage	28 V (Unregulated)	70 V (Unregulated)	70 V (Unregulated)
Thrust	5 mN to 18 mN (Xe)	5 mN to 55 mN (Xe)	5 mN to 55 mN (Xe)
Isp	950 s to 1 390 s (Xe)	950 s to 2 050 s (Xe)	950 s to 2 050 s (Xe)
Total Impulse	< 250 kNs	< 1.5 MNs	< 1.5 MNs
Propellant	Xe, Kr	Xe, Kr	Xe, Kr
TRL	8 (Flight Heritage from 2025)	8 (Flight Heritage from 2025)	8 (Flight Heritage from 2025)

Options

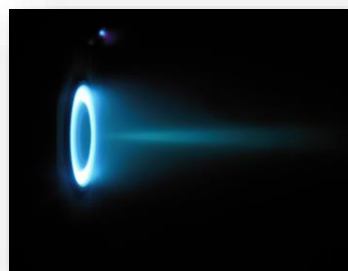
Xe/Kr Leak Test
Xe/Kr Loading
Thruster Simulator
PPU Emulator (+ Service)
Spacecraft Integration
100 % European Supply Chain

Standard Services

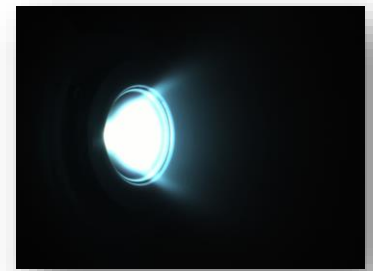
Harness Design & Manufacturing
Tubing Routing & Preparation
Sub-System Integration & Test
High-Voltage Electrical Integrity



OHB Sweden EPsylon Electric Propulsion System Module.



Pictures of the thruster plume from EPsylon MAX coupling test



Visit us for more info

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