



PROPULSION

EPsYLON – Small Electric Propulsion System

Product datasheet

With a design and manufacturing based on more than two decades of experience in EP systems, EPsylon eases the access of reliable EP off-the-shelf modules. EPsylon combines the required expertise for S/C integration and supply chain reliability with a cost-efficient approach in order to answer the expectations of institutional and new-space markets.



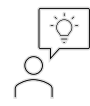
Integrated & Modular



Wide power and thrust ranges



Shorter lead-times



> 20 years experience in EP

Variant	EPsylon Lite			EPsylon Star
Mission	LEO			LEO-GEO
Thruster technology	HET			HET
Propellant	Xe Kr (Under qualification)			Xe Kr (Under qualification)
Tank variants	Lite-5 5 L	Lite-10 10 L	Lite-X Custom	Customizable to the mission requirements
Power	250 W to 400 W per String			250 W to 1 000 W per String
Bus Input Voltage Unregulated	28 V or 70 V			70 V
Thrust (BOL) Throttleable by adjusting the power	8 mN to 18 mN			8 mN to 55 mN
Isp	950 s to 1 390 s (Xe)			950 s to 1 700 s (Xe)
Total Impulse	Up to 250 kNs Possible extension for 300 kNs			Up to 1.5 MNs Possible extension for 2.5 MNs
Dry Mass	15-20 kg			20-35 kg
TRL	8 (in 2026) 9 (in end 2027)			8 (in 2026) 9 (in end 2027)

Acceptance testing

Vibration
TVAC
Proof & Leakage
Final inspection

Options

S/C Leak Test
Propellant Loading
Thruster Emulator
PPU EM
S/C Integration



OHB Sweden EPsylon Electric Propulsion System Module



Pictures of the thruster plume from EPsylon Star coupling test

About us

OHB Sweden AB (100% owned by OHB SE) is the largest space system integrator in Sweden, and specializes in small satellites, AOCS and propulsion subsystems. With 180+ skilled employees with experience from LEO to the Moon, from subsystems to mission prime, and from commercial to institutional business.

Contact us

P.O. Box 1269, SE-164 29 Kista, Sweden
Office: Torshamnsgatan 24 A, Kista (Stockholm)
<http://www.ohb-sweden.se>
spacesales@ohb-sweden.se

