

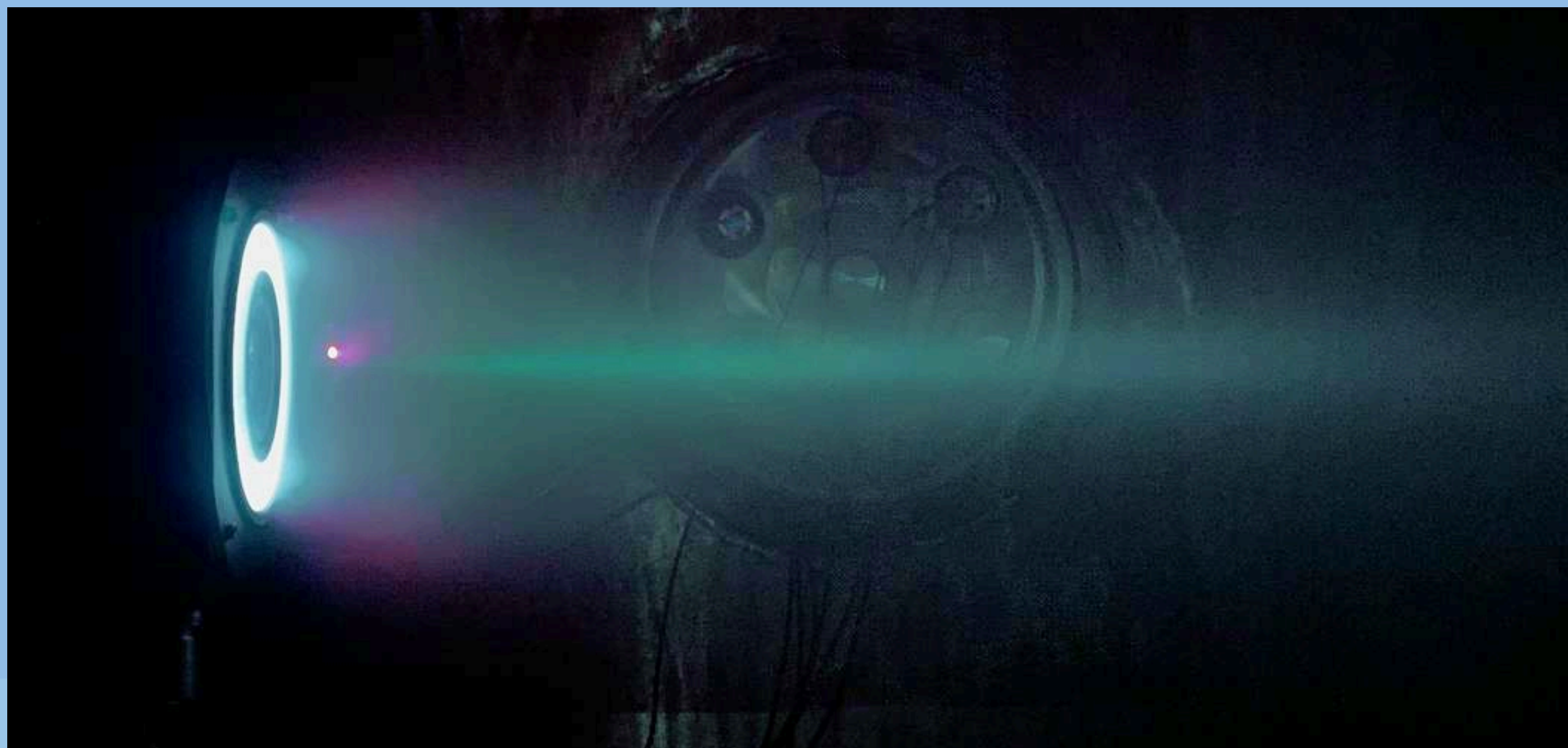
SPS-100 PRODUCT SHEET



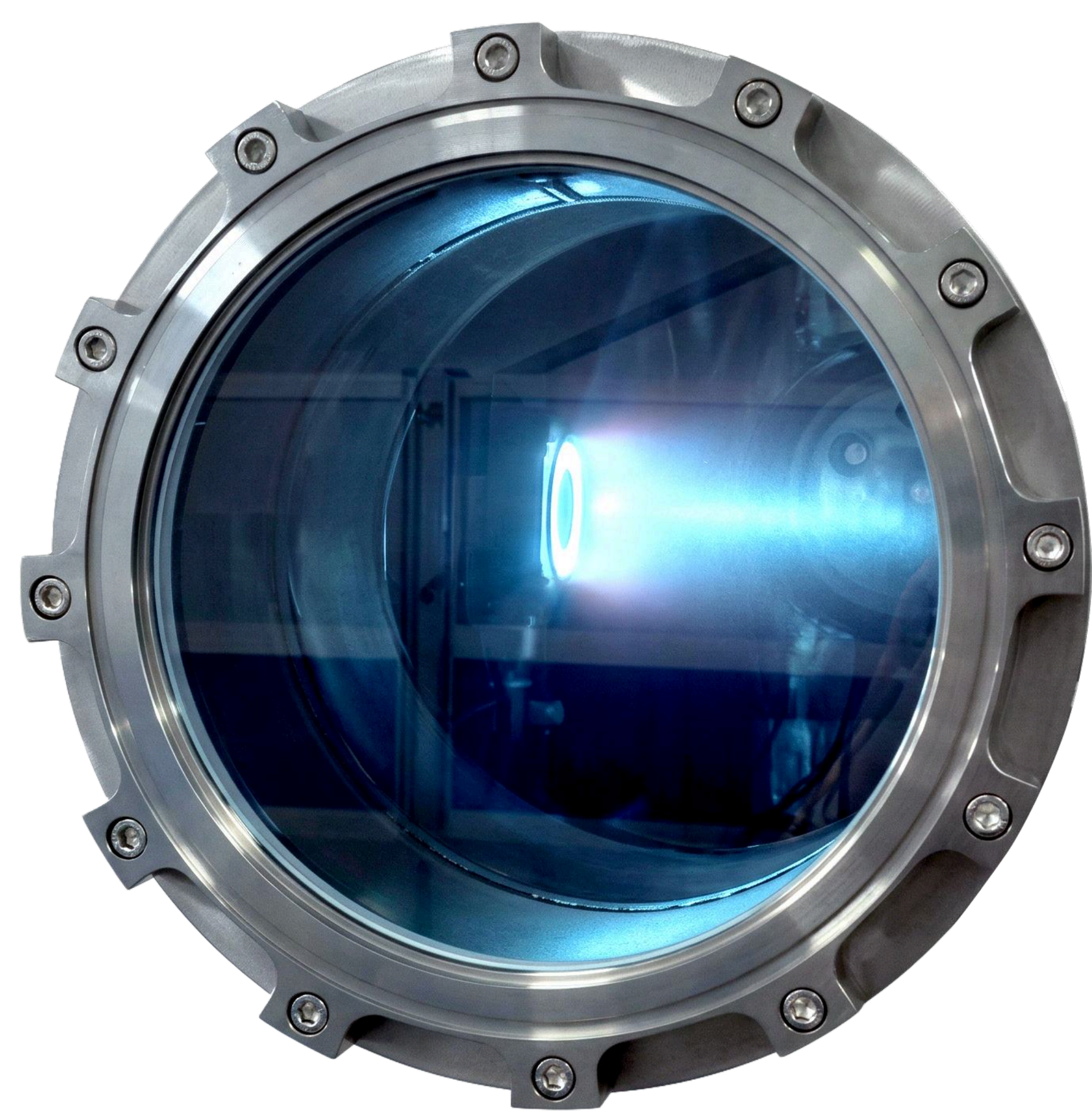
The SPS-100 is an electric propulsion system in the 1.5 kW power class, developed for satellite missions requiring a balance between efficiency and increased thrust capability. It is particularly suited for missions involving significant orbit transfers, intensive station-keeping, and operations in more demanding orbital environments.

The system combines ST-100 Hall-effect thruster technology with an integrated xenon storage and feed system and a Power Processing Unit, forming a robust propulsion platform capable of sustained high-power operation. Its design enables higher thrust compared to lower-power systems while maintaining high specific impulse and efficient propellant usage.

The SPS-100 is engineered with flexibility in mind, allowing system configuration and performance parameters to be adapted to specific customer and mission requirements. With its emphasis on power, responsiveness, and reliability, it provides an effective solution for satellites requiring enhanced mobility and dynamic mission profiles.



Technical Information



Type of thruster	Hall-effect thruster ST-100
Propellant	Xenon, Krypton
Total power consumption, W	1000 – 1750
Thrust, mN	Up to 95
Specific impulse, s	Up to 1900
Total Impulse (one thruster configuration), kN•s	Up to 3
Dry mass (without tank), kg	Up to 20
TRL Level	4