

NEWSPACE MARKET · COMPANY PROFILE

Space Electric Thruster Systems (SETS)

Ukraine · founded 2016 · sets.space

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PRODUCTS

10

WITH DATASHEETS

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as of 20 August 2026

Space Electric Thruster Systems (SETS)

SETS (Space Electric Thruster Systems) is an aerospace company specializing in high-performance electric propulsion technologies for satellites, founded in 2016 in Dnipro, Ukraine. The company began as a laboratory effort building core teams, procuring vacuum test stands, and defining electric-propulsion design parameters, developing laboratory prototypes of anode blocks, hollow cathodes, xenon feed systems, and power processing units by 2018, and receiving a Seal of Excellence Certificate from the European Commission. SETS covers the full system scope of electric propulsion: Hall-effect thrusters, xenon storage and feed systems, and power processing units, integrated into complete propulsion systems. Between 2019 and 2021 the company produced qualification models across its product lines and expanded its test facilities, which include multiple vacuum chambers ranging from small cathode/low-power test chambers up to a large chamber for full propulsion systems, plume diagnostics, in-house leak/vibration/functional testing, orbital and laser welding, and ISO 8 clean rooms. In 2021-2022 SETS designed, tested, and shipped its first flight models to private customers. The company has flight heritage since May 2023, including its SPS-25 propulsion system flown on the EOS SAT-1 satellite. Its team includes a professor and multiple PhDs with decades of combined experience in electric propulsion and plasma physics, drawing partly from Oles Honchar Dnipro National University's Faculty of Physics and Technology.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

Product catalogue

SPACE ELECTRIC THRUSTER SYSTEMS (SETS)

PPU-1500 (Power Processing Unit)

The PPU-1500 is a power processing unit for 1.5 kW class electric propulsion systems, designed to convert satellite power and control thruster operations.

Anode power	Up to 1500 W
Input voltage	80-140 V
Operating temperature	-35 to +80 C
Efficiency	Up to 94%

[price on request](#) [datasheet](#)



SPACE ELECTRIC THRUSTER SYSTEMS (SETS)

PPU-200 (Power Processing Unit)

The PPU-200 is a power management unit for LEO satellites, designed to supply Hall-effect thrusters in the 80–230 W range and control the Xenon Feed System.

Power range for Hall-effect thrusters	80–230 W
Flight heritage	Yes
Anode power supply architecture	Patented

[price on request](#) [datasheet](#)



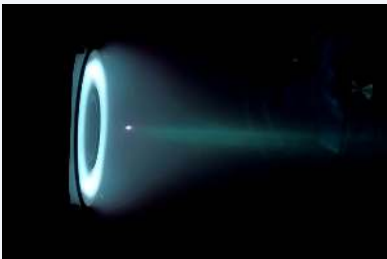
SPACE ELECTRIC THRUSTER SYSTEMS (SETS)

PPU-500 (Power Processing Unit)

The PPU-500 is a power processing unit designed for 500 W class electric propulsion systems, providing efficient and reliable power management for Hall-effect thrusters.

Anode power	Up to 500 W
Input voltage	24-36 V
Operating temperature	-35 to +80 C
Efficiency	Up to 94%

[price on request](#) [datasheet](#)



SPACE ELECTRIC THRUSTER SYSTEMS (SETS)

SPS-100 Propulsion System

The SPS-100 is an electric propulsion system designed for medium and large satellites, providing power from 1000 W to 1750 W for orbit maintenance, orbital maneuvers, and deep space

Total power consumption	Up to 1750 W
Thrust	Up to 95 mN (0.095 N)
Dry mass (without tank)	Up to 20 kg
Total impulse	Up to 3 MN*s (one thruster configuration)

[price on request](#) [datasheet](#)



SPACE ELECTRIC THRUSTER SYSTEMS (SETS)

SPS-25 Propulsion System

The SPS-25 Propulsion System is designed for small satellites up to 500 kg, enabling orbit adjustments and deorbiting maneuvers. It offers low mass and fast production capabilities

Total power consumption	120-275 W
Thrust	Up to 14 mN (0.014 N)
Dry mass (without tank)	Up to 5 kg
Total impulse	Up to 75 kN*s (one thruster configuration)
Flight heritage	Flown on EOS SAT-1 satellite

[price on request](#) [datasheet](#)



SPACE ELECTRIC THRUSTER SYSTEMS (SETS)

SPS-40 Propulsion System

The SPS-40 is a high-efficiency electric propulsion system for a wide range of space missions, offering precise orbit control and high total impulse with minimal propellant consump

Total power consumption	300-600 W
Thrust	Up to 31 mN (0.031 N)
Dry mass (without tank)	Up to 9 kg
Total impulse	Up to 300 kN*s (one thruster configuration)

[price on request](#) [datasheet](#)



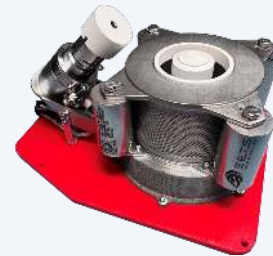
SPACE ELECTRIC THRUSTER SYSTEMS (SETS)

ST-100 Hall Thruster

The ST-100 is a 1.5 kW Hall-Effect Thruster developed by SETS for a wide range of spacecraft applications, offering high parameters, reliability, and a long lifetime.

Consumption power	800-1500 W
Thrust	50-95 mN (0.05-0.095 N), depends on input power
Specific impulse	1400-1900 s
Efficiency	Up to 56%

[price on request](#) [datasheet](#)



SPACE ELECTRIC THRUSTER SYSTEMS (SETS)

ST-25 Hall Thruster

The ST-25 is a compact Hall-effect thruster designed for small satellite missions, offering efficient, low-thrust propulsion with high specific impulse.

Consumption power	100-250 W
Thrust	5-15 mN (0.005-0.015 N)
Specific impulse	950-1500 s
Efficiency	Up to 40%

[price on request](#) [datasheet](#)



SPACE ELECTRIC THRUSTER SYSTEMS (SETS)

ST-40 Hall Thruster

The ST-40 Hall Thruster is a low-cost, multi-propellant electric propulsion solution designed for LEO-GEO satellites and constellation missions, offering flexibility in thrust and

Consumption power	250-600 W
Thrust	13-36 mN (0.013-0.036 N)
Specific impulse	1000-1750 s
Efficiency	Up to 46%

[price on request](#) [datasheet](#)



SPACE ELECTRIC THRUSTER SYSTEMS (SETS)

XFS (Xenon Feed System)

The Xenon Feed System (XFS) is designed to work with Electric Propulsion Systems and Hall-effect thrusters, managing xenon gas pressure and mass flow rates.

Inlet pressure	Up to 180 bar
Nominal flow rate (anode)	Up to 3 mg/s
Nominal flow rate (cathode)	Up to 0.5 mg/s
Dimensions	145 x 127 x 115 mm
Propellant	Xenon, Krypton

[price on request](#) [datasheet](#)

Contact Space Electric Thruster Systems (SETS)

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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