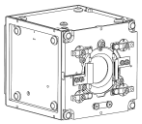
NPT30-I2-1U

SMART IODINE ELECTRIC PROPULSION SYSTEM

FLIGHT PROVEN



Miniaturized electric propulsion with breakthrough performance for smallsats. ThrustMe's NPT30-I2 is a fully integrated propulsion system based on the gridded ion thruster technology. It has a modular design, and includes the ion thruster, the PPU, the propellant storage, feed system as well as passive thermal management and intelligent operation control. The NPT30-I2 uses solid iodine propellant, is delivered pre-filled and remains non-pressurized during launch. Use of iodine also avoids sloshing and provides extreme geometrical design flexibility.

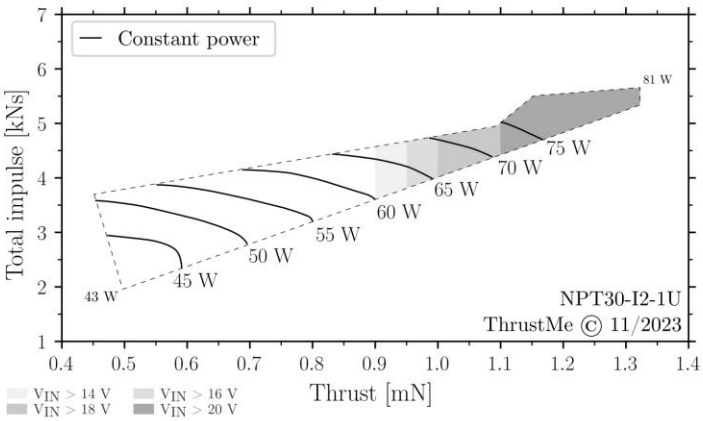
PRODUCT INFORMATION



EMBEDDED INTELLIGENCE

- ✓ Built-in-self-tuning algorithms
- ✓ Integrated thrust computer
- ✓ Thrust can be continuously throttled
- ✓ Supports multiple standard and customizable operating modes
- ✓ Possible operation with thrust or power lock
- ✓ Over 50 internal parameters are continuously monitored and used for algorithm adjustments

NPT30-I2-1U OPERATIONAL MODES



ADVANCED SAFETY FEATURES

- ✓ Embedded fail-safe modes
- ✓ Redundancy includes cathodes and ignition systems
- ✓ Patented pipe-less design to avoid clogging
- ✓ Non-pressurized solid propellant
- ✓ Continuous neutralization monitoring
- ✓ Iodine-compatible sealing for safe storage

EASY TO OPERATE AND INTEGRATE

- ✓ Platform agnostic
- ✓ Full AIT support
- ✓ System shipped pre-filled
- ✓ Short lead times
- ✓ Engineering models available
- ✓ Clusterization possible for higher thrust & total impulse

PERFORMANCE & SPECIFICATIONS

Thrust	0.5 – 1.3 mN*
Total impulse	up to 5500 Ns*
Specific impulse	up to 2400 s
Format factor	1U
Dimensions	96x96x113 mm
Total wet mass	1.2 kg
Total power	43 – 81 W
Thrust vector accuracy	< 1°

*at approximately 80W

INTERFACE

Input Voltage	12 – 28 V
Bus interface	I^2C, CAN

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ThrustMe offers advanced mobility solutions for the growing space industry which is facing new challenges due to the rise of satellite constellations. As experts in in-space propulsion and satellite orbital manoeuvring strategies, we enable a future where space is used sustainably to create value both on Earth, and beyond. Founded in 2017, ThrustMe has a complete portfolio of game-changing turnkey propulsion products that have already been tested in space and delivered to clients worldwide. The company made history in 2019 and 2020 with the world's first in-orbit demonstration of iodine-fuelled electric propulsion systems: a technology that has the potential to revolutionize the entire industry.

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