Terms of Reference

of the

"RF Power Supply"

for the

Microelectronics Technology Development Section

Synchrotron Light Source Institute (Public Organization)

Synchrotron Light Source Institute (Public Organization)

111 University Ave., Muang District, Nakhon Ratchasima Thailand 30000

Table of content

1. Introduction

The Microsystems & Microelectronics Laboratory, overseen by the Microelectronics Technology Development Section within the Technical and Engineering Development Division, is equipped to fabricate 3D patterns or structures from millimeters to nanometers scale. Using photolithography and Physical Vapor Deposition thin-film techniques, the lab supports research and development in Microsystems and Microelectronics across diverse fields, such as Quantum Technology, Microfluidic Technology, Sensor Technology, and Medical Technology. Enhancing the lab's capabilities to support research, development, and innovation creation is a key mission of the Laboratory.

2. Necessity and Rationale

To develop and enhance the capabilities of plasma technology, graphene technology, and other related advanced technologies by integrating high-precision fabrication equipment and processes, thereby supporting research, development, and innovation across multidisciplinary fields.

3. Objective

To develop and enhance the capabilities of plasma technology, graphene technology, and other related technologies.

4. Specifications or Specific Features

Figure 1 RF Power Supply

- Input voltage range: 200-230VAC
- Input frequency: 50 Hz
- Maximum output power: 1000W
- Minimum output power: 10W
- Output frequency: 13.56 MHz ±0.005%

5. Delivery Lead Time

Delivery within 3 months

6. Procurement Budget

600,000 Baht (Thai).

7. Warranty Period

1 year warranty.

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