High Voltage Power Supply for Satellite

Outline
This instrument is a HVPS (high voltage power supply) to be installed on scientific satellite for supplying voltage to detectors in the space environment. It can be output up to 0 to +5000 V / -5000 to 0 V with reference voltage(analog or digital).

Features
- **Flight proven**
- Lower cost using COTS parts
- Vibration and shock resistant for space
- Up to 5kV with a fixed HVPS and sweeping HVPS
- ITAR free
- RoHS nonconformity
- Made in Japan
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Items</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output voltage range</strong></td>
<td>0 to +5000 V / -5000 to 0 V</td>
</tr>
<tr>
<td><strong>Max output current</strong></td>
<td>&lt; 100 μA</td>
</tr>
<tr>
<td><strong>Output ripple voltage</strong></td>
<td>&lt; 100 mVp-p</td>
</tr>
<tr>
<td><strong>Input voltage range</strong></td>
<td>+11.5 to +13.0 V (DC)/-11.5 to -13.0 V (DC)</td>
</tr>
<tr>
<td><strong>Reference voltage range</strong></td>
<td>0 to 5 V</td>
</tr>
<tr>
<td><strong>Monitor output voltage range</strong></td>
<td>0 to 5 V</td>
</tr>
<tr>
<td><strong>Output current</strong></td>
<td>&lt; 0.5 W(I x V ), (V:output voltage)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>116 x 61 x 17 mm (flange and screw not included)</td>
</tr>
<tr>
<td><strong>Lead time</strong></td>
<td>About 9 months after receiving orders.</td>
</tr>
<tr>
<td><strong>Flight heritage</strong></td>
<td>ISS, Exposed Facility (MAXI)</td>
</tr>
<tr>
<td></td>
<td>Lunar explorer, SELENE/KAGUYA</td>
</tr>
</tbody>
</table>

**Sweeping HVPS (+5000V)**

We can also make sweeping type.

---

**Caution**

- For safe and correct usage, please read the "Operation Manual" prior to the use of the products.
- Specifications and designs are subject to change without notice.
- Specifications and designs are based on the standard model. Please contact us regarding further customization to suit your project’s needs.
- This product may be subject to the application of the Foreign Exchange and Foreign Trade Act and other related laws and regulations in Japan. Customer agrees to comply with such regulations and acknowledges that it is their responsibility to obtain any required licenses to export, re-export, or import this product.
- We shall not be liable for any damages arising out of or in connection with the use of specifications herein, including liability for lost profit, business interruption, or any other damages whatsoever.
- The color of the product photography on catalog might be different from that of actual product because of printing.

[www.meisei.co.jp/english](http://www.meisei.co.jp/english)

E-mail: aerospace@meisei.co.jp

Headquaters:
2223 Naganumamachi, Isesaki-shi, Gunma 372-8585, Japan
Tel: +81-270-32-1113 Fax: +81-270-32-0988
Aerospace & Defence Systems Div.

Tokyo Branch:
TOYOSU IHI BUILDING 10F, 1-1, Toyosu 3-chome, Koto-ku, Tokyo 135-8115, Japan
Tel: +81-3-6204-8252 Fax: +81-3-6204-8888
Sales & Marketing Dept.
Aerospace & Defence Systems Div.

---

The specifications in this catalog are current as of June 2018.