The APS-1102 is not only in the role as a precision AC/DC power supply but also a powerful analyzer, containing abundant features for the testing and characteristic analysis of power supplies, electronic devices, components and modules. Besides providing AC/DC power, APS-1102 also allows free programming of outputs for the simulation of a power source with abnormal variations. The instantaneous interruption, frequency sweeping, voltage sweeping and arbitrary waveforms of power source can be easily generated in accordance with the test requirements. The output function includes two main modes, AC and AC + DC. Each mode can be combined with any of the four signal sources, internal (INT), external (EXT), internal + external (ADD), and synchronization, to give an ultimate flexibility of power source setting.

The measurement functions, including Voltage, Current, Power, Frequency, Load power factor, Load crest factor and Harmonic current, are provided to monitor the output status in a real time manner. The measurement of Inrush Current, which occurs during power-on of a capacitor load, can be done easily. All these measurement readings and settings are displayed on a 5.7” CD screen simultaneously. APS-1102 includes a multi-functional and user-friendly software, which supports the remote control of panel operations, Sequence editing and execution, Arbitrary waveform editing and transfer, and Data logging via USB interface.

A universal AC power outlet is available on the front panel to accommodate almost all types of plugs used in most of the countries. With the capacity of 1kVA power and weighting of 20 lbs, APS-1102 provides powerful test and analysis features all in a comparatively compact and light-weight box.

### FEATURES

- **5.7” Large LCD Display**
- **Output Capacity**: 750VA (for AC 100V Input)/1kVA (for AC 200V Input)
- **Output Modes**: AC and AC + DC Combined with any of the four signal sources
- **Signal Sources**: Internal (INT), External (EXT), Internal + External (ADD) and Synchronization (SYNC)
- **Arbitrary Waveform Power Output**
- **Power Amplifier of External Signal**
- **Measurement Functions**: Voltage, Current, Power, Frequency, Power Factor, CF, and Harmonic Current
- **Capacitor Input Load Supported**
- **Sequence Function Allows Programming of Output Patterns**
- **Limiter Function** (Upper/Lower Limits Function)
- **30 Sets of SAVE/RECALL Memories**
- **Output On/Off Switch**
- **USB Host as Standard for Remote Control**

### APPLICATIONS

- **R & D and Testing of wide variety but small quantity power supply manufacturers**
- **R & D and Testing of wide variety and compact consumer device manufacturers**
- **Testing of battery-powered modules**
- **Used as the power source for relay and switch characteristic testing**
- **Used as the power source for product inspection lines of devices in wide variety**
- **Used as the power source for LCD or battery formation**
<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>AC Input (100 ~ 180V)</th>
<th>DC Input (180 ~ 250V)</th>
<th>DC Input (100 ~ 180V)</th>
<th>DC Input (180 ~ 250V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAXIMUM OUTPUT CAPACITY</td>
<td>750VA (1000VA)</td>
<td>750W (1000W)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OUTPUT VOLTAGE</td>
<td>0.0V ~ 135.0V</td>
<td>0.0V ~ 270.0V</td>
<td>-190.0V ~ +190.0V</td>
<td>-380.0V ~ +380.0V</td>
</tr>
<tr>
<td>OUTPUT MAX. CURRENT</td>
<td>AC 100V: 10A</td>
<td>AC 100V: 5A</td>
<td>AC 200V: 10A</td>
<td>AC 200V: 5A</td>
</tr>
<tr>
<td>OUTPUT MAXIMUM PEAK CURRENTS</td>
<td>DC 100V: 40Apk</td>
<td>DC 100V: 20Apk</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FREQUENCY</td>
<td>Setting Range: 1.0Hz ~ 350.0Hz</td>
<td>Setting Accuracy: ±100ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WAVEFORM</td>
<td>SINE WAVE</td>
<td>SQUARE WAVE</td>
<td>ARBITRARY WAVE (Up To 16 Types Can Be Saved)</td>
<td></td>
</tr>
<tr>
<td>Output Voltage Distortion Rate</td>
<td>0.5% MAX(50Hz/60Hz)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LINE VOLTAGE REGULATION</td>
<td>0.2% MAXIMUM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOAD VOLTAGE REGULATION RATE</td>
<td>0.5% MAXIMUM</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Measurement

- Frequency Counter
  - RANGE: 1.0 ~ 550.0 Hz
  - 0.1Hz
- RMS Volt-Meter (AC+DC)
  - Full Scale 100V: 225.0Vrms
  - Full Scale 200V: 450.0Vrms
- RMS Amp-Meter (AC+DC)
  - Full Scale 15.00A
- Load Power Factor Measurement
  - 1W
- Load Crest Factor Measurement
  - 0.0 ~ 5.00
- External Synchronization
  - 0.1Hz
- Frequency Measurement
  - 38.0 ~ 525.0Hz
- Phase When Output Is On
  - 0.0°C ~ 359.9°C

### External Signal Input

- Gain Setting Range
  - 100V range: 0 ~ 200 times
  - 200V range: 0 ~ 400 times

### Output Mode

- ACINT Mode
- AC + DC - INT Mode
- AC - EXT Mode
- AC + DC - EXT Mode
- AC + ADD Mode
- AC - ADD Mode
- AC + DC - ADD Mode
- AC + DC - SYNC Mode
- AC - SYNC Mode
- AC + DC - SYNC Mode

### Memory

- Store/Recall: 30 sets

### Power Source

- AC100V ~ 230V ±10% ; 50Hz / 60Hz ±2Hz

### Power Consumption/Factor

- 1.4kVA max / 0.95min (AC100V) ; 0.9min (AC200V)

### Interface

- USB (USB TMC) Standard

### Dimensions & Weight

- 258(W) X 176(H) X 440(D) ; Approx. 9.5 kg

Specifications subject to change without notice. PS-1102GD1DH

### Ordering Information

**APS-1102** 1kVA Programmable AC/DC Power Source

**ACCESSORIES**

- User Manual x 1, Power Cord x 2, Ferrite Core (for USB Cord), CD-ROM (Remote Control Software) x 1

**OPTIONAL ACCESSORIES**

- GRA-409 Rack Adapter Panel

**FREE DOWNLOAD**

- Remote Control Software
- LabView Driver

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