California Instruments™ Asterion® Programmable AC, DC & AC + DC Power
(500 VA - 36000 VA, 200 / 400 Vac, 250 / 500 Vdc)


Inspired by the enduring power of a brilliant star, the new California Instruments™ Asterion® line of AC power sources by AMETEK Programmable Power combines intelligence and flexibility to create an entirely new platform of AC solutions. This easy-to-configure design features sophisticated technology for delivering high performance, programmable AC and DC power. Its sleek design packs maximum power density into a low-profile form factor with an intuitive touch screen interface placing that power at your fingertips. Centralized control and unparalleled modularity make Asterion the most adaptable platform on the market. Its ground-breaking capabilities set a new standard for affordable, precision power sources.

A star is born.
Introducing Asterion.

Advantages:
- Maximize space utilization with leading AC power density in 1U/2U/4U/14U chassis
- Full output power over widest voltage range with iX2™ technology
- Quickly and expertly control AC source with intuitive touch screen
- 1U models - single phase
  2U/4U models - 1 or 3 phase

Advanced Features:
- High power density in 1/2/4/14U chassis up to 18 kVA
- Intuitive touch panel control
- Innovative iX2™ current doubling technology
- Multi-language display for global operation
- Auto paralleling for higher power
- Combine units for multiple phase configurations.
- Complete avionic test suites (optional)
- ATE version available

Applications:
- Commercial and military avionics test
- AC power simulation
- ATE applications
- Manufacturing and process control
- Frequency and voltage conversion
- IEC standards testing
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<td>AST501 - 1U</td>
<td>5000VA (5000W)</td>
<td>0-200/0-400V</td>
<td>(1Φ mode) 5.5A to 100V in 200V Range; 2.5A to 200V in 400V Range</td>
<td>(1Φ mode) 5A to 100V in 200V Range; 2.5A to 200V in 400V Range</td>
<td>0-250/0-500V</td>
<td>(1Φ mode) 4A to 125V in 250V Range; 2.0A to 250V in 500V Range</td>
<td>90-264VAC</td>
<td>90-264VAC</td>
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<td>AST51 - 1U</td>
<td>7500VA (7500W)</td>
<td>0-200/0-400V</td>
<td>(1Φ mode) 7.5A to 100V in 200V Range; 3.75A to 200V in 400V Range</td>
<td>(1Φ mode) 7.5A to 100V in 200V Range; 3.75A to 200V in 400V Range</td>
<td>0-250/0-500V</td>
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<td>90-264VAC</td>
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<td>15000VA (15000W)</td>
<td>0-200/0-400V</td>
<td>(1Φ mode) 7.5A to 100V in 200V Range; 3.75A to 200V in 400V Range</td>
<td>(1Φ mode) 15A to 100V in 200V Range; 7.5A to 200V in 400V Range; (3Φ mode) 5.0A to 100V in 200V Range; 2.5A to 200V in 400V Range</td>
<td>0-250/0-500V</td>
<td>(1Φ mode) 6.0A to 125V in 250V Range; 6.0A to 250V in 500V Range; (3Φ mode) 4.0A to 125V in 250V Range; 2A to 250V in 500V Range</td>
<td>90-264VAC</td>
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<tr>
<td>AST2253 - 2U</td>
<td>15000VA (15000W)</td>
<td>0-200/0-400V</td>
<td>(1Φ mode) 11.25A to 100V in 200V Range; 5.625A to 200V in 400V Range; (3Φ mode) 7.5A at 200V in 200V Range; 3.75A at 200V in 400V Range</td>
<td>(1Φ mode) 22.5A at 100V in 200V Range; 11.25A at 200V in 400V Range; (3Φ mode) 15A at 100V in 200V Range; 7.5A at 200V in 400V Range</td>
<td>0-250/0-500V</td>
<td>(1Φ mode) 9.0A to 125V in 250V Range; 9.0A to 250V in 500V Range; (3Φ mode) 6.0A to 125V in 250V Range; 3A to 250V in 500V Range</td>
<td>90-264VAC</td>
<td>90-264VAC</td>
</tr>
<tr>
<td>AST3001 / AST3003 - 2U</td>
<td>30000VA (30000W)</td>
<td>0-200/0-400V</td>
<td>(1Φ mode) 15A at 200V in 200V Range; 15A at 200V in 400V Range; (3Φ mode) 10A at 200V in 200V Range; 5A at 200V in 400V Range</td>
<td>(1Φ mode) 30A at 100V in 200V Range; 15A at 200V in 400V Range; (3Φ mode) 10A at 200V in 200V Range; 5A at 200V in 400V Range</td>
<td>0-250/0-500V</td>
<td>(1Φ mode) 24A to 125V in 250V Range; 12A to 250V in 500V Range; (3Φ mode) 8.0A to 125V in 250V Range; 4A to 250V in 500V Range</td>
<td>90-264VAC</td>
<td>90-264VAC</td>
</tr>
<tr>
<td>AST4503 - 4U</td>
<td>45000VA (45000W)</td>
<td>0-200/0-400V</td>
<td>(1Φ mode) 22.5A to 100V in 200V Range; 11.25A to 200V in 400V Range</td>
<td>(1Φ mode) 45A to 100V in 200V Range; 22.5A to 200V in 400V Range; (3Φ mode) 15A at 100V in 200V Range; 7.5A at 200V in 400V Range</td>
<td>0-250/0-500V</td>
<td>(1Φ mode) 18A/9A, (3Φ mode) 6A/3A</td>
<td>180 - 264VAC 3-wire</td>
<td>180 - 264VAC 3-wire</td>
</tr>
<tr>
<td>AST6003 - 4U</td>
<td>60000VA (60000W)</td>
<td>0-200/0-400V</td>
<td>(1Φ mode) 30A at 100V in 200V Range; 15A at 200V in 400V Range; (3Φ mode) 20A at 100V in 200V Range; 10A at 200V in 400V Range</td>
<td>(1Φ mode) 60A at 100V in 200V Range; 30A at 200V in 400V Range; (3Φ mode) 20A at 100V in 200V Range; 10A at 200V in 400V Range</td>
<td>0-250/0-500V</td>
<td>(1Φ mode) 24A/12A, (3Φ mode) 8A/4A</td>
<td>180 - 264VAC 3-wire</td>
<td>180 - 264VAC 3-wire</td>
</tr>
<tr>
<td>AST12K3 - 14U</td>
<td>12000VA (12000W)</td>
<td>0-200/0-400V</td>
<td>(1Φ mode) 60A at 100V in 200V Range; 30A at 200V in 400V Range; (3Φ mode) 40A at 100V in 200V Range; 20A at 200V in 400V Range</td>
<td>(1Φ mode) 120A at 100V in 200V Range; 60A at 200V in 400V Range; (3Φ mode) 40A at 100V in 200V Range; 20A at 200V in 400V Range</td>
<td>0-250/0-500V</td>
<td>(1Φ mode) 48A/24A, (3Φ mode) 16A/8A</td>
<td>180 - 264VAC 3-wire</td>
<td>180 - 264VAC 3-wire</td>
</tr>
<tr>
<td>AST18K3 - 14U</td>
<td>18000VA (18000W)</td>
<td>0-200/0-400V</td>
<td>(1Φ mode) 90A at 100V in 200V Range; 45A at 200V in 400V Range; (3Φ mode) 60A at 100V in 200V Range; 30A at 200V in 400V Range</td>
<td>(1Φ mode) 180A at 100V in 200V Range; 90A at 200V in 400V Range; (3Φ mode) 60A at 100V in 200V Range; 30A at 200V in 400V Range</td>
<td>0-250/0-500V</td>
<td>(1Φ mode) 72A/36A, (3Φ mode) 24A/12A</td>
<td>180 - 264VAC 3-wire</td>
<td>180 - 264VAC 3-wire</td>
</tr>
</tbody>
</table>

### Asterion Output Current Rating for 16Hz and DC

See Data Sheet for Ratings > 1kHz to 5kHz

All Asterion sources employ AMETEK’s latest current enhancing technology, iX2™. IX2 current doubling technology enables output current to increase linearly up to two times the full voltage current as the voltage decreases from range maximum to one-half of range voltage. IX2 technology results in a source that DELIVERS FULL POWER OVER THE WIDEST VOLTAGE RANGES! This eliminates the need to buy overpowered sources just to reach low line current requirements.

### Common Specifications

- **Control Interfaces**: LAN, USB, RS232, Analog/EXTD Standard, GPIB Optional
- **Power Factor, Typical**: 0.98 (typical); active PFC, 50/60Hz nominal line
- **Input Frequency**: 47-440 Hz
- **Output Operational Modes**: AC, AC + DC, DC
- **Output Frequency**: DC, 16Hz - 1200Hz standard, 5000Hz optional

### Virtual Panels Software

Virtual Panels™ allows remote control of the Asterion AC power source as well as programming communication and monitoring for the Asterion ATE model without front panel display.

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**Asterion AC Series: Product Specifications & Details**

**Virtual Panels Software**

Virtual Panels™ allows remote control of the Asterion AC power source as well as programming communication and monitoring for the Asterion ATE model without front panel display.