

The Future of AC Power Sources.





California Instruments[™] Asterion[®] Programmable AC, DC & AC + DC Power

(500 VA - 36000 VA, 200 / 400 Vac, 250 / 500 Vdc)

Performance. Reliance. Brilliance.

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 rack space utilization with leading AC power density in 1U/2U 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 1U/2U/4U chassis up to 6kVA
- 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



Asterion AC Series: Product Specifications & Details

AC/DC Output Specifications							
Model	AST501 - 1U	AST751 - 1U	AST15013 / AST1503 - 1U/2U	AST2253 - 2U	AST30013 / AST3003 - 2U	AST4503 - 4U	AST6003 - 4U
Output Power	500VA (500W) 1Ф ¹	750VA (750W) 1Φ¹	1500VA (1500W) 1Φ/3Φ¹	2250VA (2250W) 1Φ/3Φ¹	3000VA (3000W) 1Ф/3Ф ¹	4500 VA (4500W) 1Φ/3Φ¹	6000 VA (6000W) 1Ф/3Ф ¹
AC RMS Voltage Ranges	0-200V/0-400V	0-200V/0-400V	0-200V/0-400V	0-200V/0-400V	0-200V/0-400V	0-200V/0-400V	0-200V/0-400V
AC RMS Current per phase at Max V Range	(1Φ mode) 2.5A/1.25A	(1Φ mode) 3.75A/1.875A	(1Φ mode) 7.5A/3.75A (3Φ mode) 2.5A/1.25A	(1Φ mode) 11.25A/5.625A (3Φ mode) 3.75A/1.88A	(1Φ mode) 15A/7.5A (3Φ mode) 5.0A/2.5A	(1Φ mode) 22.5A/11.25A (3Φ mode) 7.5A/3.75A	(1Φ mode) 30A/15A (3Φ mode) 10A/5A
iX2 AC RMS Current per phase	(1Φ mode) 5A to 100V in 200V Range; 2.5A to 200V in 400V Range	(1Ф mode) 7.5A to 100V in 200V Range; 3.75A to 200V in 400V Range	(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	(1Φ mode) 22.5A to 100V in 200V Range; 11.25A to 200V in 400V Range (3Φ mode) 7.5A to 100V in 200V Range; 3.75A to 200V in 400V Range	(1Φ mode) 30A to 100V in 200V Range; 15A to 200V in 400V Range (3Φ mode) 10A to 100V in 200V Range; 5A to 200V in 400V Range	(1Φ mode) 45A to 100V in 200V Range; 22.5A to 200V in 400V Range (3Φ mode) 15A to 100V in 200V Range; 7.5A to 200V in 400V Range	(1Φ mode) 60A to 100V in 200V Range; 30A to 200V in 400V Range (3Φ mode) 20A to 100V in 200V Range; 10A to 200V in 400V Range
DC Voltage Ranges	0-250V/0-500V	0-250V/0-500V	0-250V/0-500V	0-250V/0-500V	0-250V/0-500V	0-250V/0-500V	0-250V/0-500V
DC Current per phase at Max V Range	(1Φ mode) 2.0A/1.0A	(1Φ mode) 3.0A/1.5A	(1Φ mode) 6.0A/3.0A (3Φ mode) 2.0A/1.0A	(1Φ mode) 9.0A/4.5A (3Φ mode) 3.0A/1.5A	(1Φ mode) 12.0A/6.0A (3Φ mode) 4.0A/2.0A	(1Φ mode) 18A/9A (3Φ mode) 6A/3A	(1Φ mode) 24A/12A (3Φ mode) 8A/4A
iX2 - DC Current per phase	(1Ф mode) 4A to 125V in 250V Range; 2.0A to 250V in 500V Range	(1Ф mode) 6A to 125V in 250V Range; 3.0A to 250V in 500V Range	(1Φ mode) 12A to 125V in 250V Range; 6A to 250V in 500V Range (3Φ mode) 4.0A to 125V in 250V Range; 2A to 250V in 500V Range	(1Φ mode) 18A 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	(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	(1Φ mode) 36A to 125V in 250V Range; 18A to 250V in 500V Range (3Φ mode) 12A to 125V in 250V Range; 6A to 250V in 500V Range	(1Φ mode) 48A to 125V in 250V Range; 24A to 250V in 500V Range (3Φ mode) 16A to 125V in 250V Range; 8A to 250V in 500V Range
Input Voltage Operating Range	90-264VAC ²					180 - 264 VAC 3-wire + ground, 342 - 457 VAC 3-wire + neutral + ground	

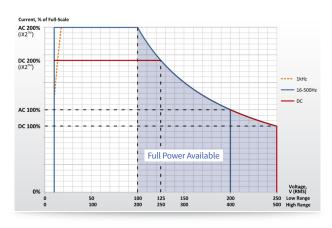
Common Specifications				
Control Interfaces	LAN, USB, RS232, Analog/EXTD Standard, GPIB Optional			
Power Factor, Typical	0.98 (typical); active PFC, 50/60Hz nominal line			
Input Frequency	47-440 Hz			
Output Operational Modes	AC, AC + DC, DC			
Output Frequency	DC, 16Hz - 1000Hz standard, 5000Hz optional			

 $^{^1\}textit{Easily combine chassis for higher power.} \ ^2\textit{See manual for output power ratings vs input voltage}.$

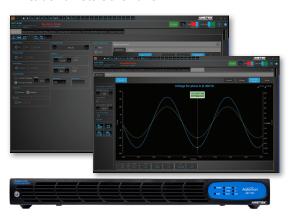
Asterion Output Current Rating for 16Hz and DC

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.



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.



³AST1501 & AST3001 are single phase only. See AST1503 & AST3003 for 1 or 3 phase selectable.