



Sorensen™ Asterion® DC ASA Series Multiple-Output Programmable Power Supply with Touch Screen Display (600 W per Channel, 1800 W Total, 60-600 V, 2.8-42 A)

The Sorensen™ Asterion® DC ASA Series is the newest addition to the Asterion platform of power testing solutions. The new ASA Series features up to three independent, isolated, extended wide-range outputs in a 1U high chassis. The autoranging supplies feature expanded current and voltage range at the full output power level, enabling the ability to satisfy a wider testing need without requiring the purchase of additional models.

The Asterion DC ASA Series, just like the Asterion DC Series, offers complete remote programming and control via Virtual Panels™ GUI, and intuitive front panel touch screen operation. Additionally, the instrument can be controlled via standard LXI Ethernet, USB, and RS232 control interfaces, as well as through the optional GPIB control interface.

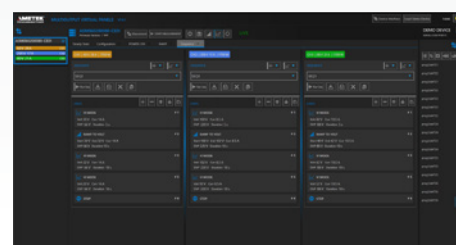
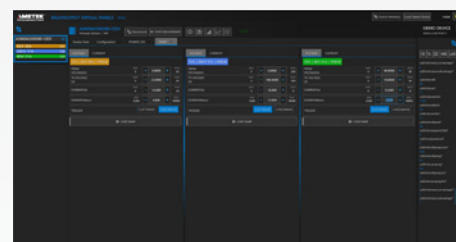
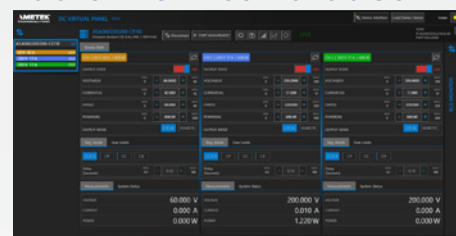
Advanced Intelligent Control

The Asterion DC ASA Series is operated from the intuitive, easy-to-use front panel touch screen display. Quickly access output programming parameters, measurements, configuration and system settings from the touch screen interface. Functions and parameters can be directly selected from the touch screen or by using the encoder selector button. The control resolution is adjusted by a dynamic rate change algorithm that combines the benefits of precise control over small parameter changes with quick sweeps through the entire range.

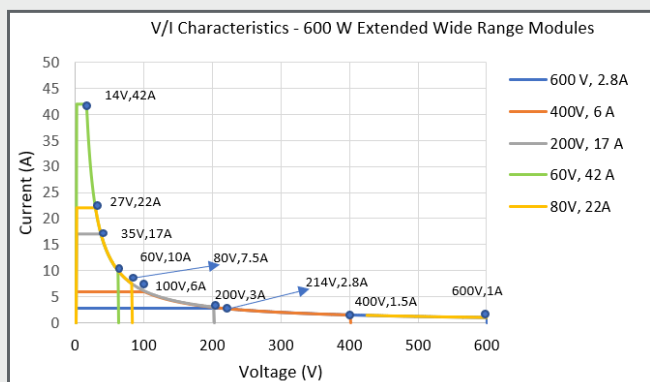
Advantages:

- Three 600W channels in a 1U chassis up to 1800W total
- Mix or match any three of five available output channel options
- 3-Phase AC Input options for system phase balancing
- Intuitive touch panel control
- Multi-channel programmable sequencing, ramps and delays
- Full remote control via Virtual Panels™

Asterion DC Virtual Panels GUI



Asterion DC ASA Series I-V Curve



Sorensen Asterion DC Series: Product Specifications & Details

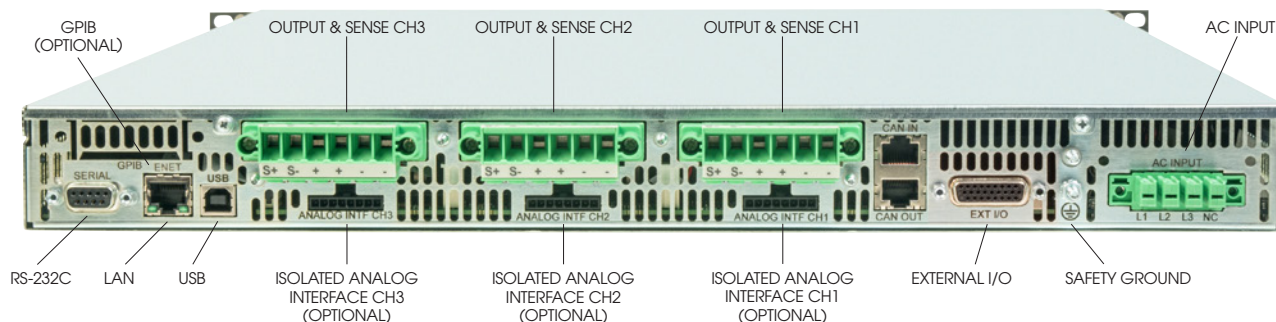
Output Specifications (Autoranging) – Choose up to three channels of any configuration output ⁽¹⁾

Channel Models	Voltage (V)	Current (A)	Power (W)	Voltage Ripple & Noise RMS, mV ⁽²⁾	Voltage Ripple & Noise PK-PK, mV ⁽³⁾
060	60	42	600	12	75
080	80	22	600	15	90
200	200	17	600	40	150
400	400	6	600	80	300
600	600	2.8	600	80	350
000	Channel 3 blank, only Channel 1 and 2 populated.				

1) Channel configuration installed at factory, not field replaceable.

2) RMS ripple/noise, over 20 Hz to 300 kHz bandwidth, is measured directly across the output terminals with the supply operating into 90% of rated resistive load in all channels and nominal AC input line voltage.

3) PK-PK ripple/noise, over 20 Hz to 20 MHz bandwidth with the supply operating into 90% of rated resistive load in all channels and nominal AC input line voltage.



Output Specifications (Continued)

Constant Voltage Mode	
Line Regulation	0.01% of rated voltage
Load Regulation	0.02% of rated voltage
Constant Current Mode	
Line Regulation	0.05% of rated current
Load Regulation	0.15% of rated current
Constant Power Mode	
Line Regulation	0.1% of rated power
Load Regulation	0.1% of rated power
Transient Response Time	60V and 80V Output: 1 ms; 200V & 400V Output: 2 ms. Typical time to recover within 0.5% of rated output voltage for load step of 10-90% of rated output current. Transient response is measured with load change on one channel and other two channels are loaded to 90% of rated power.
Voltage Programming Accuracy	+/- 0.1% of rated output voltage
Current Programming Accuracy	+/- 0.2% of rated output current

AC Input Specifications

Input Voltage Operating Range	Opt. C: 1-phase line-neutral: Low-input range: 90-145 VAC, high-input range: 180 VAC-264 VAC or 3-phase line-line: 180 VAC-264 VAC Opt. D: 3-phase line-line 342-456 VAC Opt. E: 3-phase line-line 396-528 VAC
Input Frequency Range	47-63 Hz
Power Factor	98% (single phase 220VAC), 95% (three phase input), active PFC
Efficiency (Typical)	80% Typical, at full load and nominal AC input voltage
Isolation Voltage	1500 VAC Input to Ground, 3000 VAC Input to Hazardous Secondary, 3000 VAC Input to Isolated SELV barriers Output terminal Positive (+Ve) and Negative (-Ve): ± 600 Vrms, maximum, with respect to chassis ground. Isolated Analog Interface Signals and External User Control I/O interface to Output Negative terminal: ± 600 Vrms, maximum; optional Isolated Analog programming and external user Interface Signals are isolated from negative output terminal; operation of Isolated Analog Interface Signals should be at SELV safety voltage conditions to chassis ground.
Environmental	
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-30°C to +85°C (-22°F to +185°F)
Relative Humidity	20-90% RH, non-condensing

*See manual for output power ratings vs input voltage.