



Sorensen™ Asterion® DC Half-Rack High-Performance Programmable DC Power Supply

1.7 kW | 40 V to 600 V | 2.8 A to 42 A

The Sorensen™ Asterion® DC Half-Rack Series extends the Asterion platform with industry-leading power density in a 1U half-rack form factor. Designed for high-performance test applications where space is limited, the Half-Rack Series delivers up to 1.7 kW with the same advanced control, accuracy, and flexibility found across the Asterion family.

Available in fixed-range and autoranging models, the Asterion DC Half-Rack Series supports a wide range of voltage and current combinations while reducing rack space and system complexity. Autoranging models provide expanded operating envelopes at full power, enabling broader test coverage with fewer instruments.

Designed for space-constrained test systems and benchtop environments, the Asterion™ DC Half-Rack Series delivers the performance and control of the Asterion platform in a compact 1U half-rack form factor.



Overview

- Power: Up to 1.7 kW
- Output Voltage: 40 V to 600 V
- Output Current: Up to 42 A
- Form Factor: 1U half-rack
- Output Modes: CV, CC, CP
- AC Input: Single-phase
- Interfaces: LXI LAN, USB, RS-232 (standard)

Category	Asterion DC	Asterion DC Half-Rack
Form factor	Full-rack chassis	1U half-rack chassis
Power class	Higher total output power	Up to 1.7 kW
Primary use	High-power systems, rack-level test setups	Space-constrained ATE, benchtop, and modular systems
Rack density	Lower density per rack unit	Higher density in multi-instrument racks
Output capability	Fixed-range and autoranging models	Fixed-range and autoranging models
Control & interfaces	Front panel + digital interfaces (LXI LAN, USB, RS-232 standard)	Same Asterion platform control and interfaces
Platform consistency	Asterion DSP-controlled architecture	Same Asterion DSP-controlled platform in a smaller footprint
Ideal customer need	Maximum power per instrument	Maximum flexibility and rack efficiency

Sorensen Asterion DC Half-Rack: Product Specifications & Details



Asterion Half-Rack Output Specifications – 1.7 kW Fixed Range Models

MODEL		ASH 40-42	ASH 60-28	ASH 80-22	ASH 100-17	ASH 150-12	ASH 200-8.5	ASH 300-5.6	ASH 400-4.3	ASH 600-2.8
Rated Output Voltage	V	40	60	80	100	150	200	300	400	600
Rated Output Current	A	42	28	22	17	12	8.5	5.6	4.3	2.8
Rated Output Power	W	1700	1700	1700	1700	1700	1700	1700	1700	1700
Line Regulation	V	+/- 0.01% of rated voltage								
	A	+/- 0.05% of rated current								
Load Regulation	V	+/- 0.02% of rated voltage								
	A	+/- 0.15% of rated current								
Ripple RMS (20Hz-300kHz) c.v	mV	7	7	12	12	20	20	40	40	60
Output noise p-p (20Hz-20MHz) c.v	mV	60	60	75	75	75	100	300	300	300
Remote sense compensation		5% maximum of rated output voltage								
Temperature drift	PPM/C	100								
Stability		0.05% of output rating								

Asterion Half-Rack Output Specifications – 1.7 kW Auto Range Models

MODEL		ASH 60-42AR	ASH 200-17AR	ASH 400-6AR
Rated Output Voltage	V	60	200	400
Rated Output Current	A	42	17	6
Rated Output Power	W	1700	1700	1700
Line Regulation	V	+/- 0.01% of rated voltage		
	A	+/- 0.05% of rated current		
Load Regulation	V	+/- 0.02% of rated voltage		
	A	+/- 0.15% of rated current		
Ripple RMS (20Hz-300kHz) c.v	mV	12	20	40
Output noise p-p (20Hz-20MHz) c.v	mV	75	100	300
Remote sense compensation		5% maximum of rated output voltage		
Temperature drift	PPM/C	100		
Stability		0.05% of output rating		

Avionics Test

Power Simulation

ATE Applications

Manufacturing

Frequency Conversion

IEC Standards Testing

