

Asterion®

Performance. Reliance. Brilliance.

AMETEK®
PROGRAMMABLE POWER

Sorensen™



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.

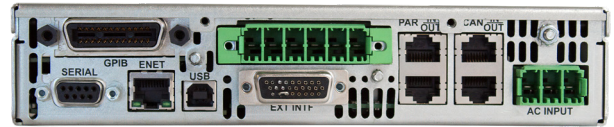


Overview

- 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 DC 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 DC Output Specifications – 1.7 kW Fixed 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 | | |

