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Data Sheet

August 2, 2026

ASTRON

Astron SS-30 Switching DC Power Supply

The Astron SS-30 is a switching regulated DC power supply providing 13.8 VDC for communications and related 12 V-class equipment. Continuous output is 25 A with 30 A peak intermittent communication service (ICS). Output is user-adjustable about ± 1 V around 13.8 V (approximately 12.8–14.8 V depending on revision). Wide-range AC input is typically 120–230 VAC auto-selected (50/60 Hz). Features include high-efficiency switching (greater than 82% class on current datasheets), communications-oriented filtering including HF, fold-back/current limiting and crowbar OVP on Astron SS-family designs, and front illuminated on/off. Connector sets vary by revision (terminal block, Anderson PowerPole, USB auxiliary on some SS-30 datasheets). 13.8 V land-mobile and amateur radio power; 25 A continuous / 30 A peak communications loads; compact switching replacement for larger linear supplies. 13.8 V land-mobile and amateur radio power; 25 A continuous / 30 A peak communications loads; compact switching replacement for larger linear supplies.



MODEL

Astron SS-30

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SS-30

LISTING

<https://aumictechlabs.com/products/ss-30-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Astron SS-30 is a solid 30 Amp switching power supply designed for reliable performance in various applications. It has a stable and well-filtered 13.8 VDC output, making it suitable for powering communication equipment, testing apparatus, and other electronic devices. The SS-30 features durable construction, efficient design, and comprehensive protection mechanisms to

ensure consistent and dependable power delivery. Technical Specifications Electrical Specifications: * Output Voltage: 13.8 VDC (user-adjustable $\pm 1V$ on some models) Continuous Output Current: 25A Intermittent Communication Service (ICS) Peak Output Current: 30A Input Voltage: 120 to 230 VAC, 50/60Hz (automatic wide-range selection) Efficiency: >82% (switching technology) AC Current Draw (Full Load): 4.5A (for SS-30M-AP) AC Current Draw (Idle): 144mA (for SS-30M-AP) EMI Filter: Built-in, certified to EN55022/CISPR 22 (Class-B), FCC Part15 (Class-B), EN55024, EN61000-3-2 (Class-D), EN61000-3-3 (Harmonic), IEC61000-4-2,4,5 (EMS) Power Factor Correction (PFC): Included Protection Features: * Short circuit protection Over-voltage protection Automatic over-temperature shutdown Output current limiting Internal fuse protection Crowbar over-voltage protection Interfaces and Connectors: * AC Input: IEC320-C14 connector DC Output: * Front panel Anderson Power Pole terminals (on -AP models) * Rear panel screw-wire terminals * 2 x USB ports (5.2VDC, 1.5A per port) (on -AP models) * 1x 2-Wire Terminal Rear panel port Physical Specifications: * Dimensions: Approximately 2.6" H x 7" W x 8.25" D (or 2 5/8 in H x 7 in W x 8 1/4 in D) * Other sources list dimensions as 3 3/4 x 7 x 9 3/8 inches or 7.000 in. H x 2.875 in. Height x 9.375 in. Depth Weight: Approximately 4.3 lbs, 5.00 lbs Construction: Industrial metal case, low profile, lightweight Cooling: Fan cooled Digital Displays: Front Panel numeric LED, 1 DC Volt meter and 1 Amp meter (on SS-30M-AP) Switch: Illuminated ON/OFF switch (on SS-30M-AP) Environmental and Safety: * Operating Temperature: 0 to +50 °C Storage Temperature: -20 to +85 °C Operating Humidity: 5 to 90% RH (Non-condensing) Storage Humidity: 5 to 95% RH (Non-condensing) Certifications: * Certified to UL/CUL/EN/IEC 62368-1 standards * Certified to Energy Star and CEC standards * RoHS Compliant (Lead Free) EMI Standards: Meets EN55022/CISPR 22 (Class-B), FCC Part15 (Class-B), EN55024, EN61000-3-2 (Class-D), EN61000-3-3 (Harmonic), IEC61000-4-2,4,5 (EMS) Why Choose Aumictech for Astron SS-30? At Aumictech, we specialize in supplying high-end power supply equipment. Whether you need a reliable DC power source for critical communications, stable power for sensitive testing apparatus, or a solid solution for enterprise applications, our team ensures the Astron SS-30 delivers maximum performance for your application.

Features & description

From manufacturer datasheet

Features

- Switching regulated 13.8 VDC supply • 25 A continuous / 30 A peak (ICS) • Adjustable output about 13.8 V +/- 1 V • Wide-range 120–230 VAC input (auto select, current datasheet) • Communications / HF-oriented filtering • High efficiency switching (greater than 82% class) • Fold-back current limiting and crowbar OVP (SS family) • Front panel illuminated power switch • Compact vs equivalent linear supplies • Made in USA (Astron Corporation)

30 Characteristics / Specifications

PARAMETER	VALUE
Model	SS-30
Manufacturer	Astron Corporation
Instrument Type	Switching regulated DC power supply
Input Voltage	120–230 VAC, 50/60 Hz (nominal auto wide-range; older listings also cite 115–220 VAC)
Output Voltage	13.8 VDC (user adjustable about +/- 1 V; approx 12.8–14.8 V)
Continuous Current	25 A max @ 13.8 VDC
Peak / ICS Current	30 A peak (ICS duty: typically limited duty cycle / on-time per datasheet)
Auxiliary (some revisions)	dual USB 5.2 V, 1.5 A per port class
Efficiency	greater than 82% class (current switching datasheet)
Operating Temperature	0 to +50 C (current datasheet class)
Dimensions	about 7.0 x 3.75 x 9.675 in (dealer listing class)
Shipping Weight	about 5 lb class Standard Operating Conditions Observe ICS peak duty limits (peak not continuous). Ensure ventilation. Match connector kit (PowerPole vs terminals) to the installed revision. Confirm ripple/filter expectations for HF receive applications.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to +50 C (current datasheet class)
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Dimensions	about 7.0 x 3.75 × 9.675 in (dealer listing class)
Shipping Weight	about 5 lb class Standard Operating Conditions Observe ICS peak duty limits (peak not continuous). Ensure ventilation. Match connector kit (PowerPole vs terminals) to the installed revision. Confirm ripple/filter expectations for HF receive applications.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

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Operating Temperature	0 to +50 C (current datasheet class)
Dimensions	about 7.0 x 3.75 x 9.675 in (dealer listing class)
Shipping Weight	about 5 lb class

Standard Operating Conditions

Observe ICS peak duty limits (peak not continuous). Ensure ventilation. Match connector kit (PowerPole vs terminals) to the installed revision. Confirm ripple/filter expectations for HF receive applications.

Operational Notes

SS-30 is switching 13.8 V-not the linear 28 V LS-3A. Faceplate suffixes (e.g., SS-30-AP) denote connector options; electrical ratings remain in the SS-30 family class unless otherwise marked.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.