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Data Sheet

August 14, 2026

ELGAR

Elgar LM 30-6 Linear DC Power Module

AMETEK Elgar LM30-6 Linear DC Power Supply The AMETEK/Elgar LM30-6 (also listed in Sorensen LM lineage under AMETEK Programmable Power) is a benchtop CV/CC linear DC supply rated 0 to 30 VDC at 0 to 6 ADC (180 W). Published LM30-6 specification sheets list ripple less than 1.0 mV RMS, line regulation better than 0.01 percent plus 3 mV, load regulation better than 0.01 percent plus 5 mV, and transient response less than 100 μ s for a 50 percent load change. Clean linear DC power for RF-sensitive benches, component burn-in, and general 30 V / 6 A laboratory sourcing. The AMETEK/Elgar LM30-6 (also listed in Sorensen LM lineage under AMETEK Programmable Power) is a benchtop CV/CC linear DC supply rated 0 to 30 VDC at 0 to 6 ADC (180 W). Published LM30-6 specification sheets list ripple less than 1.0 mV RMS, line regulation better than 0.01 percent plus 3 mV, load regulation better than 0.01 percent plus 5 mV, and transient response less than 100 μ s for a 50 percent load change. Clean linear DC power for RF-sensitive benches, component burn-in, and general 30 V / 6 A laboratory sourcing.

 Elgar LM 30-6 Linear DC Power Module

MODEL

Elgar LM 30-6

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

LM 30-6

LISTING

<https://aumictechlabs.com/products/lm-30-6-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Elgar LM 30-6 is a linear DC power supply designed for benchtop applications, offering versatility for various testing and development needs. It is part of the L Series family, which

includes models with outputs ranging from 0-8V to 0-300V and power levels from 90W to 375W. The LM 30-6 can function as both a voltage source and a current source, with automatic crossover between modes dependent on the load demand. This unit is suitable for applications requiring precise regulation, low noise, and stable output. Technical Specifications * Model: ELGAR LM 30-6 Output Voltage: 0 to 30 VDC Output Current: 0 to 6 ADC Voltage Load Regulation: $< 0.01\% + 5 \text{ mV}$ Output Voltage Temperature Coefficient: $\leq 300 \text{ PPM}/^{\circ}\text{C}$ Output Voltage Recovery Time: $\leq 100 \mu\text{s}$ for a 50% load change with a 0.5A minimum load Output Voltage Ripple and Noise: (Specific value not explicitly detailed for LM 30-6, but generally low for L Series) Constant Voltage (CV) / Constant Current (CC) Operation: * Operates as a precisely regulated voltage source or current source. * Automatic crossover between modes based on load demand. * Front panel LEDs indicate operating mode. Series/Parallel Operation: Multiple power supplies can be connected in series to extend the output voltage range. (Note: Parallel operation capability is mentioned for LS and LT Series, not explicitly for LM Series). Display: * Type: Digital, 3.5 digits, 0.5" red LED * Simultaneous display of output voltage and current. * Display Voltage Range (for LM 30-6): 199.9V for full scale * Display Current Range: 19.99A for full scale * Display Accuracy: $\pm(0.5\% \text{ of reading} + 2 \text{ digits})$ AC Input: * Universal AC Input: Externally switch-selectable for 100V/120V/220V/240V at 50/60 Hz. Power Output: 180W (Calculated: 30V * 6A) Electrical Specifications * Line Regulation: $< 0.01\% + 5 \text{ mV}$ (for LM 30-6) Load Regulation: $< 0.01\% + 5 \text{ mV}$ (for LM 30-6) Output Noise: Very low noise is a characteristic feature of linear power supplies, often specified in mV RMS. Physical Specifications * Dimensions (LM Series): 5.7" (144 mm) H x 10" (254 mm) W x 13.7" (335 mm) D Weight: 23.5 lb / 11.5 kg Environmental Specifications * Operating Temperature Range: 0°C to 40°C Storage Temperature Range: -10°C to 70°C Operating Humidity: $< 80\% \text{ RH}$ Storage Humidity: $< 70\% \text{ RH}$ Safety and Compliance * Grounding: Enclosure must be connected to safety earth ground via the power cord's ground wire to prevent electrical shock. Do not operate with an ungrounded enclosure. Internal Hazards: Hazardous voltages may be present inside the unit even when powered off due to stored charge in capacitors. Only qualified service personnel should service the equipment. CE Mark: Included for the L Series (excluding LH Series). Key Features * Versatile Operation: Can be used as either a precisely regulated voltage source or a current source. Linear Series-Pass Output Stages: Provide excellent regulation, low noise, and fast transient response. Front Panel Controls: Coarse and fine controls for voltage and current adjustment (0 to 100% of rating). Automatic CV/CC Crossover: Seamless transition between constant voltage and constant current modes. Digital Displays: Simultaneous, accurate display of output voltage and current. solid Construction: Designed for benchtop and portable applications. Why Choose Aumictech for ELGAR LM 30-6? At Aumictech, we specialize in supplying high-end power supply equipment. Whether you need reliable voltage and current regulation, low-noise output for sensitive measurements, or versatile operational modes for testing and product development, our team ensures the ELGAR LM 30-6 delivers maximum performance for your application.

LM30 Characteristics / Specifications

PARAMETER	VALUE
Output Voltage Range	0 to 30 VDC
Output Current Range	0 to 6 ADC
Output Power	180 W
Ripple Bandwidth 5 Hz To 1 MHz	less than 1.0 mV RMS
Line Regulation	less than 0.01 percent plus 3 mV
Voltage Load Regulation	less than 0.01 percent plus 5 mV
Transient Response	less than 100 us for 50 percent load change 0.5 A minimum load
Temperature Coefficient	less than 300 ppm perCOperating Mode: CV/CC
Form Factor	benchtop portable
Instrument Family	LM series linear DC supply
Manufacturer Lineage	Elgar / Sorensen / AMETEK Programmable Power
Output Type	regulated DC
Current Limit	CC mode current limiting
Voltage Control	front panel
Current Control	front panel
Cooling	convection linear supply
Sense Mode	local sense LM series
Protection	current limit overload
Input Power	AC mains powered
Metering	voltage and current metering
Regulation Topology	linear series pass
Maximum Voltage	30 V
Maximum Current	6 A
Bandwidth	5 Hz To 1 MHz: less than 1.0 mV RMS

LM30 Specifications

PARAMETER	VALUE
Applications	Clean linear DC power for RF-sensitive benches, component burn-in, and general 30 V / 6 A laboratory sourcing.
Key Features	0 to 30 V at 0 to 6 A
Constant voltage and constant current	Less than 1 mV RMS ripple
Technical Specifications	Output Voltage Range: 0 to 30 VDC

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	
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Notes	
From published Sorensen/Elgar LM30-6 DC power supply specification listings under AMETEK Programmable Power	

lineage (0-30 V, 0-6 A, 180 W regulation table). Confirm faceplate branding (Elgar vs Sorensen) on the specific unit.

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