

**Aumictech**

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Data Sheet

August 15, 2026

DELTA ELEKTRONIKA

Delta Elektronika SM7020D

Front Panel Size: 89 × 483 mm (19 inch 2U) Chassis Behind Panel HxWxD: 89 × 428 × 257 mm
Meter Accuracy: 0.5 percent plus 2 digits From Delta Elektronika SM700 series datasheet
columns for SM7020-D (1989 rev. Sept. 2001). Queue SKU SM7020D matches SM7020-D.
Chassis Behind Panel HxWxD: 89 × 428 × 257 mm Meter Accuracy: 0.5 percent plus 2 digits
From Delta Elektronika SM700 series datasheet columns for SM7020-D (1989 rev. Sept. 2001).
Queue SKU SM7020D matches SM7020-D.



MODEL

**Delta Elektronika
SM7020D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SM7020D

LISTING

<https://aumictechlabs.com/products/sm7020d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Delta Elektronika SM7020D is a 700W autoranging DC power supply engineered for laboratory testing, R&D, and precision electronic applications. Dual-output ranges deliver 0–35V at up to 20A or 35–70V at up to 10A, with automatic range switching to maintain full 700W capability across both voltage bands. Low-noise output, fast transient response (100μs recovery at 25°C), and comprehensive protection systems ensure reliable operation in demanding test environments. Master/slave parallel and series operation enable expanded power configurations for multi-unit setups. Technical Specifications Output Performance Output power: 700W Voltage range: 0–35V and 35–70V (autoranging) Current range: 0–20A (0–35V); 0–10A (35–70V) Transient response: ~100μs recovery time for 50–100% load step at 25°C; increases by 100μs at –20°C Output ripple

and noise: Low levels with minimal spike generation Efficiency: Up to 90% Input Power AC input: 90–132V AC (110V range) or 185–265V AC (230V range) DC input: 215–350V DC supported Input current: 8.4 A rms at 110V AC; 3.9 A rms at 230V AC Standby power draw: 7.5W Thermal & Environmental Operating temperature: –20°C to +50°C at full power; derating applies from 50°C to 75°C Cooling: Natural convection (no forced-air noise); minimum 5 cm clearance recommended Key Features Autoranging topology maintains maximum 700W across dual voltage ranges Overvoltage, overcurrent, and short-circuit protection Thermal shutdown with automatic restart after cooling Analog programming via 0–5V inputs; isolated programming option with ISO AMP MODULE Front-panel CV/CC potentiometers; screwdriver-adjustable OVP Remote shutdown capability Sense-lead protection (output may rise to 115% of set value if leads disconnect) Typical Applications Parametric testing of power electronics and semiconductor devices Laboratory power distribution for multi-range test setups Automated test systems requiring precise voltage and current control High-reliability environments demanding fast transient settling Compatibility & Integration Parallel and series operation supported for distributed power delivery. Analog and isolated programming interfaces enable integration with automated test platforms and remote control systems.

SM7020D Characteristics / Specifications

PARAMETER	VALUE
Model	SM7020-D
Series	SM700
Instrument Type	Autoranging programmable DC power supply
Output Voltage Range	0 to 70 V
Output Current Range	0 to 20 A
Maximum Output Power	700 W
Autoranging Low Band	20 A from 0 to 35 V
Autoranging High Band	10 A from 35 to 70 V
Ac Input 110 V Range	95 to 132 V
Ac Input 230 V Range	192 to 265 V
Input Frequency	48 to 62 Hz
Input Current 110 Vac	9.6 Arms
Input Current 230 Vac	4.5 Arms
Dc Input Range	215 to 350 V
Standby Input Power $V_o I_o$	7.5 W
Efficiency Ac Full Load	approximately 90 percent class
Regulation Load C_v 0 To 100 Percent	5×10^{-5}
Regulation Line C_v 192 To 265 Vac	1×10^{-4}
Ripple Noise C_v Rms 300 Khz	3 mV
Ripple Noise C_v Pp 50 Mhz	15 mV
Ripple Noise C_c Rms 300 Khz	5 mA
Ripple Noise C_c Pp 50 Mhz	15 mA
Temperature Coefficient C_v	3×10^{-4} perCTemperature Coefficient C_c : 1×10^{-3} perCAnalog Programming Range: 0 to 5 V
Programming Accuracy C_v	plus or minus 0.2 percent plus 0 to 8 mV on 5 V
Programming Input Impedance	1 MOhm

PARAMETER	VALUE
Ovp Adjust Range	0 to 80 V
Hold Up Time 100 Percent Load 230 Vac	20 ms
Hold Up Time 50 Percent Load 230 Vac	45 ms
Turn On Delay	500 ms after mains switch on
Inrush Current 230 Vac	6.5 A
Inrush Current 110 Vac	30 A
Insulation Input To Output	3750 Vrms 1 minute
Insulation Input To Case	2500 Vrms 1 minute
Operating Temperature Full Load	-20 to plus 50 C
Humidity To 40 C	95 percent RH non-condensing maximum
Humidity To 50 C	75 percent RH non-condensing maximum
Storage Temperature	-40 to plus 85 C
Mtbf	500000 hours
Front Panel Size	89 × 483 mm (19 inch 2U)
Chassis Behind Panel HxWxD	89 × 428 × 257 mm
Mass	7.4 kg
Meter Accuracy	0.5 percent plus 2 digits
Potentiometer Resolution	0.03 percent
Cooling	natural convection
Enclosure Protection	IP20
Operating temperature	Full Load: -20 to plus 50 C
Humidity	To 40 C: 95 percent RH non-condensing maximum

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to plus 85 C
Operating temperature	Full Load: -20 to plus 50 C
Operating Temperature	Full Load: -20 to plus 50 C
Humidity	To 40 C: 95 percent RH non-condensing maximum
Operating Temperature Full Load	-20 to plus 50 C
Humidity To 40 C	95 percent RH non-condensing maximum
Humidity To 50 C	75 percent RH non-condensing maximum
Mtbf	500000 hours
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Mass	7.4 kg
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Cooling	natural convection
Enclosure Protection	IP20 Notes From Delta Elektronika SM700 series datasheet columns for SM7020-D (1989 rev. Sept. 2001). Queue SKU SM7020D matches SM7020-D.

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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PARAMETER	VALUE
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Series	SM700
Instrument Type	Autoranging programmable DC power supply
Output Voltage Range	0 to 70 V
Output Current Range	0 to 20 A
Maximum Output Power	700 W
Autoranging Low Band	20 A from 0 to 35 V
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Ac Input 110 V Range	95 to 132 V
Ac Input 230 V Range	192 to 265 V
Input Frequency	48 to 62 Hz
Input Current 110 Vac	9.6 Arms
Input Current 230 Vac	4.5 Arms
Dc Input Range	215 to 350 V
Standby Input Power Vo Io 0	7.5 W
Efficiency Ac Full Load	approximately 90 percent class
Regulation Load Cv 0 To 100 Percent	5 x 10 ⁻⁵
Regulation Line Cv 192 To 265 Vac	1 x 10 ⁻⁴
Ripple Noise Cv Rms 300 Khz	3 mV
Ripple Noise Cv Pp 50 Mhz	15 mV
Ripple Noise Cc Rms 300 Khz	5 mA
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Temperature Coefficient Cv	3 x 10 ⁻⁴ perCTemperature Coefficient Cc: 1 x 10 ⁻³ perCAnalog Programming Range: 0 to 5 V
Programming Accuracy Cv	plus or minus 0.2 percent plus 0 to 8 mV on 5 V
Programming Input Impedance	1 MOhm

PARAMETER	VALUE
Ovp Adjust Range	0 to 80 V

Hold Up Time 100 Percent Load 230 Vac: 20 ms
Hold Up Time 50 Percent Load 230 Vac: 45 ms

Specifications

PARAMETER	VALUE
Turn On Delay	500 ms after mains switch on
Inrush Current 230 Vac	6.5 A
Inrush Current 110 Vac	30 A
Insulation Input To Output	3750 Vrms 1 minute
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Cooling	natural convection
Enclosure Protection	IP20

Notes
From Delta Elektronika SM700 series datasheet columns for SM7020-D (1989 rev. Sept. 2001). Queue SKU SM7020D matches SM7020-D.

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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30-day returns
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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.