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Data Sheet

August 15, 2026

AMADA MIYACHI / UNITEK MIYACHI

Amada Miyachi / Unitek Miyachi Dual Pulse 125 Stored Energy Power Supply

The Amada Miyachi Dual Pulse 125 is a stored energy power supply designed for precision resistance welding applications. It delivers controlled dual pulses of energy for creating high-quality welds on a variety of materials. Ideal for medical devices, electronics, and other critical applications requiring repeatable and reliable weld performance.

**MODEL****Amada Miyachi /
Unitek Miyachi
Dual Pulse 125****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****Dual Pulse 125****LISTING**<https://aumictechlabs.com/products/dual-pulse-125-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Amada Miyachi / Unitek Miyachi Dual Pulse 125 is a stored energy, capacitor discharge power supply engineered for high-precision resistance welding in medical devices, electronics, and critical industrial applications. Microprocessor control delivers digital precision with selectable energy output up to 125 Watt-seconds (Ws) and dual pulse capability to improve weld quality on plated materials, eliminate splash, and enhance consistency on small wire assemblies. Technical Specifications Energy Output: Selectable up to 125 Ws with display resolution from 0.1% to 0.5% depending on selected energy level Energy Display Accuracy: 0.5% Line Voltage Regulation: $\pm 0.25\%$ capacitor bank voltage maintenance across $\pm 13\%$ line voltage deviation from nominal

Turndown Circuit: Resistive discharge across capacitor bank with 0.6% full-scale deadband

Output Pulse Characteristics: Rise time measured zero to peak amplitude; pulse width measured between 10% amplitude points across 0.001 Ω non-inductive load

Key Features Dual Pulse

Technology: Two-stage weld sequence - first pulse seats electrodes and removes surface contamination at lower energy; second pulse joins base metals at three to four times first pulse energy

Weld Schedule Storage: Up to 128 programmable weld schedules with protection on 7 schedules against unauthorized changes; one schedule designated as scratch-pad

Charging Circuit: Silicon controlled rectifiers in patented configuration for high reliability and precise charging intervals; proprietary charging unit improves pulse rise times and repetition rates

Microprocessor Control: Digital precision control for consistent performance

Repetition Rate & Hit Rate: Rep Rate defined as average welds per minute based on thermal component ratings with up to 20-minute averaging period; Hit Rate specifies maximum consecutive weld speed on non-

continuous basis

Typical Applications Medical device assembly, electronics manufacturing, precision interconnect welding, plated material joining, and small-gauge wire applications requiring repeatable, high-quality results.

DUALPULSE125 Characteristics / Specifications

PARAMETER	VALUE
Model	Dual Pulse 125
Instrument Type	Stored-energy resistance welding power supply
Family	Amada Miyachi / Unitek Dual Pulse
Energy Class	125 W-s stored energy (model token)
Weld Mode	dual pulse capacitive discharge
Manufacturer	Amada Miyachi / Unitek Miyachi
Literature	Miyachi Dual Pulse 125 stored-energy welding-supply listings
System Role	CD resistance welder for small parts
Sibling Unibond	Unibond II welding power supply
Pulse Split Class	pulse 1 and pulse 2 energy on the sheet
Weld Voltage Class	CD weld voltage on the Dual Pulse 125 sheet
Rep Rate Class	welds per minute on the sheet
Line Input Class	AC mains on the sheet
Head Interface	Miyachi weld-head firing
Operating Temperature Class	industrial ambient on the sheet
Form Factor	benchtop welding power supply
Brand Lineage	Unitek / Miyachi / Amada
Documentation Type	Dual Pulse 125 listing
Ate Class	CD resistance welder
Host Class	weld head / footswitch
Year Class	Dual Pulse 125
Use Case	battery tab and fine-wire welding
Control Class	front energy/pulse controls
Safety Class	weld-cable and head interlock (sheet)
Cooling Class	convection CD supply

PARAMETER	VALUE
Operating temperature	Class: industrial ambient on the sheet

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: industrial ambient on the sheet
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Documentation Type	Dual Pulse 125 listing
Ate Class	CD resistance welder
Host Class	weld head / footswitch
Year Class	Dual Pulse 125
Use Case	battery tab and fine-wire welding
Control Class	front energy/pulse controls
Safety Class	weld-cable and head interlock (sheet)
Cooling Class	convection CD supply Notes From Miyachi Dual Pulse 125 stored-energy welding-supply listings (125 W-s class dual-pulse CD). Exact joules, volts, and rep rate are on the Dual Pulse 125 data sheet; do not invent them.

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

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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

788 S 500 E, Pleasant Grove, UT 84062
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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.