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**Data Sheet**

August 15, 2026

AMADA MIYACHI / UNITEK MIYACHI

# Amada Miyachi / Unitek Miyachi Unibond II Power Supply

Safety Class: weld-cable and head interlock (sheet) Cooling Class: forced-air/convection (sheet) Feedback Class: current feedback on the sheet Token Note: model token UnibondII maps without spaces Cooling Class: forced-air/convection (sheet) Feedback Class: current feedback on the sheet Token Note: model token UnibondII maps without spaces From Miyachi Unibond II welding power-supply listings. Weld amps, time, and line volts are on the Unibond II data sheet; do not invent them.



MODEL

**Amada Miyachi /  
Unitek Miyachi  
Unibond II**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**Unibond II**

LISTING

<https://aumictechlabs.com/products/unibond-ii-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The Amada Miyachi Unitek Miyachi Unibond II Power Supply (Model UB2) is a dual-mode constant power/constant voltage supply engineered for precision resistance welding in microelectronics assembly. The unit employs microprocessor control and a capacitor bank current source to deliver repeatable pulse welding with remote voltage sensing. Pulse amplitude adjusts continuously from 0.01 to 3.99 volts in 0.01-volt increments, while pulse duration is selectable via digital thumbwheel switches. Two feedback modes address different process

requirements: Voltage Feedback Mode for direct control, and Voltage + Current Feedback Mode, which dynamically maintains constant power by adjusting pulse amplitude across weld resistances from 1 to 15 milliohms. The exclusive remote voltage sensing topology minimizes lead inductance effects, critical for fine-wire and ribbon bonding on microwave, flatpack, and thin-film/thick-film substrates. Compatible with Unitek parallel-gap weld heads (Models 40, 46, 86, 87, 127, 147), the supply works with Unibond and Unitip electrodes. Load resistance between output transformer terminals and welding load must not exceed 1.5 milliohms. Technical Specifications Model: UB2 (Stock No. 1-191-01) Power Modes: Dual Mode (Constant Power / Constant Voltage) Control: Microprocessor control for repeatable process control Pulse Amplitude: 0.01 to 3.99 volts, continuously adjustable in 0.01-volt increments Pulse Duration: Selectable via digital thumbwheel switches Weld Resistance Compensation: 1 to 15 milliohms, continuously adjustable Current Source: Capacitor bank (low impedance) Voltage Sensing: Remote voltage sensing (exclusive feature) Power Requirements: 100, 115, 208, or 230 volts  $\pm 13\%$  Compatible Weld Heads: Unitek Models 40, 46, 86, 87, 127, 147 (1.5 milliohms or less) Load Resistance Limit: Maximum 1.5 milliohms (output transformer terminals to welding load) Key Features Voltage Feedback Mode and Voltage + Current Feedback Mode for dynamic constant-power control Solid-state capacitor bank design replaces battery-powered systems Microprocessor control ensures repeatable welding parameters Optional Meter Accessory (Model UBM, Stock No. 10-266-01) for weld load resistance determination Typical Applications Terminating fine wire on microelectronic components Bonding ribbons to microwave devices Joining flatpack leads to printed circuit boards Bonding fine wire or ribbon to thin-film and thick-film substrates Compatibility & Integration Works with Unibond electrodes for parallel-gap bonding and reflow soldering Supports Unitip electrodes for parallel-gap bonding of gold-plated kovar, copper, or gold ribbons smaller than 0.010 inches Integrates with Unitek parallel-gap weld head family

## UNIBONDII Characteristics / Specifications

| PARAMETER                   | VALUE                                            |
|-----------------------------|--------------------------------------------------|
| Model                       | Unibond II                                       |
| Instrument Type             | Resistance welding power supply                  |
| Family                      | Amada Miyachi / Unitek Unibond                   |
| Manufacturer                | Amada Miyachi / Unitek Miyachi                   |
| Literature                  | Miyachi Unibond II welding power-supply listings |
| System Role                 | resistance welder for small parts                |
| Sibling Dual Pulse          | Dual Pulse 125 stored-energy supply              |
| Weld Mode Class             | constant current / AC or inverter (data sheet)   |
| Current Range Class         | weld amps on the Unibond II sheet                |
| Weld Time Class             | ms weld time on the sheet                        |
| Line Input Class            | AC mains on the sheet                            |
| Head Interface              | Unibond / Miyachi weld head                      |
| Operating Temperature Class | industrial ambient on the sheet                  |
| Form Factor                 | benchtop welding power supply                    |
| Brand Lineage               | Unitek / Miyachi / Amada                         |
| Documentation Type          | Unibond II listing                               |
| Ate Class                   | resistance welder                                |
| Host Class                  | weld head / footswitch                           |
| Year Class                  | Unibond II                                       |
| Use Case                    | terminal and small-part welding                  |
| Control Class               | front current/time controls                      |
| Safety Class                | weld-cable and head interlock (sheet)            |
| Cooling Class               | forced-air/convection (sheet)                    |
| Feedback Class              | current feedback on the sheet                    |
| Token Note                  | model token UnibondII maps without spaces        |

| PARAMETER             | VALUE                                  |
|-----------------------|----------------------------------------|
| Operating temperature | Class: industrial ambient on the sheet |

# General Specifications & Supplementary Characteristics

| PARAMETER                   | VALUE                                                                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature       | Class: industrial ambient on the sheet                                                                                                                                                       |
| Operating Temperature       | Class: industrial ambient on the sheet                                                                                                                                                       |
| Operating Temperature Class | industrial ambient on the sheet                                                                                                                                                              |
| Form Factor                 | benchtop welding power supply                                                                                                                                                                |
| Brand Lineage               | Unitek / Miyachi / Amada                                                                                                                                                                     |
| Documentation Type          | Unibond II listing                                                                                                                                                                           |
| Ate Class                   | resistance welder                                                                                                                                                                            |
| Host Class                  | weld head / footswitch                                                                                                                                                                       |
| Year Class                  | Unibond II                                                                                                                                                                                   |
| Use Case                    | terminal and small-part welding                                                                                                                                                              |
| Control Class               | front current/time controls                                                                                                                                                                  |
| Safety Class                | weld-cable and head interlock (sheet)                                                                                                                                                        |
| Cooling Class               | forced-air/convection (sheet)                                                                                                                                                                |
| Feedback Class              | current feedback on the sheet                                                                                                                                                                |
| Token Note                  | model token UnibondII maps without spaces Notes From Miyachi Unibond II welding power-supply listings. Weld amps, time, and line volts are on the Unibond II 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              |                                                  |
|-----------------------------|--------------------------------------------------|
| Specifications              |                                                  |
| PARAMETER                   | VALUE                                            |
| Model                       | Unibond II                                       |
| Instrument Type             | Resistance welding power supply                  |
| Family                      | Amada Miyachi / Unitek Unibond                   |
| Manufacturer                | Amada Miyachi / Unitek Miyachi                   |
| Literature                  | Miyachi Unibond II welding power-supply listings |
| System Role                 | resistance welder for small parts                |
| Sibling Dual Pulse          | Dual Pulse 125 stored-energy supply              |
| Weld Mode Class             | constant current / AC or inverter (data sheet)   |
| Current Range Class         | weld amps on the Unibond II sheet                |
| Weld Time Class             | ms weld time on the sheet                        |
| Line Input Class            | AC mains on the sheet                            |
| Head Interface              | Unibond / Miyachi weld head                      |
| Operating Temperature Class | industrial ambient on the sheet                  |
| Form Factor                 | benchtop welding power supply                    |
| Brand Lineage               | Unitek / Miyachi / Amada                         |
| Documentation Type          | Unibond II listing                               |
| Ate Class                   | resistance welder                                |
| Host Class                  | weld head / footswitch                           |
| Year Class                  | Unibond II                                       |
| Use Case                    | terminal and small-part welding                  |
| Control Class               | front current/time controls                      |
| Safety Class                | weld-cable and head interlock (sheet)            |
| Cooling Class               | forced-air/convection (sheet)                    |
| Feedback Class              | current feedback on the sheet                    |
| Token Note                  | model token UnibondII maps without spaces        |

#### Notes

From Miyachi Unibond II welding power-supply listings. Weld amps, time, and line volts are on the Unibond II data sheet; do not invent them.

### Available from Aumictech

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

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

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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Generated August 15, 2026

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