

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AMERITHERM/AMBRELL

Ameritherm/Ambrell Nova 1

The Ameritherm/Ambrell Nova 1 is a compact and efficient induction heating system. It provides precise and repeatable heating for a variety of applications, including brazing, soldering, heat treating, and preheating. It features a user-friendly interface and advanced control capabilities.



MODEL

**Ameritherm/Ambrell
Nova 1**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

Nova 1

LISTING

[https://aumictechlabs.
com/products/nova-1-
3/](https://aumictechlabs.com/products/nova-1-3/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ameritherm/Ambrell Nova 1 is a compact solid-state induction power supply delivering 1 kW at 297 kHz for precision industrial and laboratory heating. This single-phase unit operates from 220 V mains at 11 A RMS and features 4-20 mA analog control input for dynamic process ramp simulation. The system enables rapid, efficient thermal cycling with minimal energy loss across brazing, soldering, heat treating, and metal insert applications. Technical Specifications Power Output: 1 kW Operating Frequency: 297 kHz Power Input: 220 V, 1-phase, 11 A RMS Control Input: 4-20 mA analog Coil Configuration: Dual-wound helical (2 over 2, 4-turn) Remote Heat Station Capacitance: 0.66 μ F Key Features Solid-state topology eliminates tube maintenance and extends service life. Fast ramp circuit simulation via 4-20 mA input for closed-loop process control. High-frequency operation at 297 kHz concentrates energy in target workpieces, reducing thermal spreading and cycle time. Compact form factor suited to benchtop and integrated assembly

stations. Typical Applications Brazing & Soldering: Precision joint formation with repeatable thermal profiles. Heat Treating: Controlled heating to modify material properties. Metal Insert Heating: Thermal assembly of threaded inserts into polymer components. Shrink Fitting: Localized heating for interference fits. Preheating & Material Curing: Substrate preparation and adhesive/epoxy processing. Forming: Metal shaping via targeted heating. Compatibility & Integration The Nova 1 interfaces via standard 4-20 mA analog control, enabling integration with programmable logic controllers, analog process controllers, and ramp generators. Coil configuration adapts to application-specific heating geometries; demonstrated two-over-two helical design is a reference configuration.

NOVA1 Characteristics / Specifications

PARAMETER	VALUE
Model	Nova 1
Instrument Type	Solid state induction power supply
Output Power	1 kW
Technology	100 percent solid state RF induction
Manufacturer	Ameritherm Ambrell
Literature	Ameritherm/Ambrell Nova 1 1 kW induction power supply listings
Family	Ameritherm Nova / NovaStar induction supplies
Brand Lineage	Ameritherm Ambrell
Form Factor	induction power supply chassis
System Role	1 kW RF induction generator
Application Class	brazing, bonding, curing, annealing, insertion, shrink fit
Process Class	induction heating
Output Class	1 kW
Drive Class	solid state RF
Tank Class	work coil / tank circuit
Control Class	Nova 1 front panel and remote class as on the Nova 1 manual
Cooling Class	per Nova 1 installation drawing
Mains Class	per Nova 1 nameplate
Frequency Class	resonant tank frequency per coil/part on Nova 1
Documentation Type	OEM Nova 1 listing
Vendor Path	Ameritherm Ambrell
Year Class	Nova 1 solid state
Safety Class	per Nova 1 CE/safety plate

NOVA1 Specifications

PARAMETER	VALUE
Applications	1 kW solid-state induction heating of small parts for brazing, shrink fit, and materials tests.
Key Features	1 kW solid-state RF induction output
Nova / NovaStar Ameritherm lineage	Compact successor to older tube-type 1 kW class supplies
Technical Specifications	Model: Nova 1

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	Nova 1
Instrument Type	Solid state induction power supply
Output Power	1 kW
Technology	100 percent solid state RF induction
Manufacturer	Ameritherm Ambrell
Literature	Ameritherm/Ambrell Nova 1 1 kW induction power supply listings
Family	Ameritherm Nova / NovaStar induction supplies
Brand Lineage	Ameritherm Ambrell
Form Factor	induction power supply chassis
System Role	1 kW RF induction generator
Application Class	brazing, bonding, curing, annealing, insertion, shrink fit
Process Class	induction heating
Output Class	1 kW
Drive Class	solid state RF
Tank Class	work coil / tank circuit
Control Class	Nova 1 front panel and remote class as on the Nova 1 manual
Cooling Class	per Nova 1 installation drawing
Mains Class	per Nova 1 nameplate
Frequency Class	resonant tank frequency per coil/part on Nova 1
Documentation Type	OEM Nova 1 listing
Vendor Path	Ameritherm Ambrell
Year Class	Nova 1 solid state
Safety Class	per Nova 1 CE/safety plate
Notes	
The 1 kW output is from Ameritherm/Ambrell Nova 1 listings. Frequency range, line current, and tank voltage	

for this 1 kW frame are on the Nova 1 nameplate/manual; do not apply Nova Star 5 (5 kW, 50 to 485 kHz) numbers to Nova 1.

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
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
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.