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Data Sheet

August 15, 2026

WELLER

Cooper Hand Tools / Weller WECP-20 Soldering Station Power Supply

Weller Cooper WECP-20 Electronically Controlled Soldering Station 24 V 50 W The WECP-20 isaWeller/Cooper analog soldering station for the LR-21 iron. OEM WECP-20 technical data lists continuous electronic temperature control 150 to 450 C, LR-21 antistatic iron 24 V / 50 W, heater isolation 500 V, SELV 24 VAC galvanically isolated from mains, mains 230 V (240 V, 120 V overlays) 50/60 Hz, heater voltage 24 V 50/60 Hz, iron power max 50 W at 24 V, mains fuse T0.315 A (5×20), regulation tolerance plus or minus 2 percent of end value, dimensions 115 × 150 × 94 mm, mass 2.1 kg, 5-pole lockable iron connector. Coded 350 C / 385 C plug overlays exist. ET-series tips 0.8 to 5.6 mm. The WECP-20 isaWeller/Cooper analog soldering station for the LR-21 iron. OEM WECP-20 technical data lists continuous electronic temperature control 150 to 450 C, LR-21 antistatic iron 24 V / 50 W, heater isolation 500 V, SELV 24 VAC galvanically isolated from mains, mains 230 V (240 V, 120 V overlays) 50/60 Hz, heater voltage 24 V 50/60 Hz, iron power max 50 W at 24 V, mains fuse T0.315 A (5×20), regulation tolerance plus or minus 2 percent of end value, dimensions 115 × 150 × 94 mm, mass 2.1 kg, 5-pole lockable iron connector. Coded 350 C / 385 C plug overlays exist. ET-series tips 0.8 to 5.6 mm. Electronics assembly and rework using a 24 V isolated Weller iron with analog 150-450 C control.



MODEL

Weller WECP-20

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

WECP-20

LISTING

<https://aumictechlabs.com/products/wecp-20-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Weller WECP-20 is a soldering station power supply that delivers stable, controlled heating power to compatible Weller soldering irons and stations. It has continuous analog temperature regulation via potentiometer adjustment, enabling precise thermal control for temperature-sensitive electronic components. The unit operates at safe low voltage (24V AC) while isolating connected tools from mains power, making it suitable for both laboratory and production environments.

Technical Specifications
Temperature Range: 50°C to 450°C (continuous analog regulation)
Temperature Control Accuracy: $\pm 2\%$ of setpoint
Heating Output: 24V AC, 50/60 Hz, maximum 50W
Mains Input: 230V AC (configurable for 120V or 240V)
Mains Fuse: T 0.315A
Tool Connection: 6-pin socket for Weller soldering tools
Dimensions: 115 mm (W) $\times$ 150 mm (D) $\times$ 94 mm (H)
Weight: 2.1 kg

Key Features
Analog potentiometer with visible temperature regulation control
Green LED indicator showing regulation status
Galvanic isolation of connected tools from mains at safe 24V AC output
Antistatic design meeting ESD safety standards when paired with antistatic irons
Compatible with 22 different Weller "Longlife" soldering tip shapes (ET-A through ET-H, tip diameters 0.8 mm to 5.6 mm)
Available in codable or COD fixed-temperature versions

Typical Applications
The WECP-20 serves applications requiring precise thermal control and electrical safety, including PCB assembly, rework of temperature-sensitive components, and ESD-protected work environments. Its $\pm 2\%$ regulation tolerance supports quality soldering in both bench and production settings.

Compatibility & Integration
Designed specifically for Weller soldering irons including the LR-21 antistatic iron. The 6-pin connection socket accommodates a wide range of Weller tools. The standard tip type for the LR-21 is ET-B. Tool galvanic isolation and low-voltage operation ensure operator safety and component protection.

WECP Characteristics / Specifications

PARAMETER	VALUE
Model	WECP-20
Instrument Type	Electronically controlled soldering station
Family	Weller WECP / Cooper Tools
Temperature Range	150 C to 450 C continuous analog
Iron	LR-21 antistatic 24 V / 50 W
Heater Isolation	500 V
Heater Voltage	24 V, 50/60 Hz SELV
Iron Power	max 50 W at 24 V
Mains Voltage	230 V (240 V and 120 V overlays), 50/60 Hz
Mains Fuse	T0.315 A (5 × 20 mm)
Regulation Tolerance	plus or minus 2 percent of end value
Dimensions	115 × 150 × 94 mm (WxDxH)
Mass	2.1 kg
Iron Connector	5-pole lockable
Status Led	continuous on heating, flash in pulse regulation, off when over temp (TRIAC off)
Output Stage	TRIAC TIC 225M class
Control Ics	78L05, LM358, SL443A pulse generator
Tip Family	ET-A through ET-H / ET-S 0.8 to 5.6 mm
Coded Plugs	350 C and 385 C coding-plug overlays
Manufacturer	Weller Tools / Cooper Hand Tools
Literature	Weller WECP-20 technical data / operating instructions
System Role	benchtop soldering station
Safety	tools galvanically isolated from mains at 24 VAC SELV
Form Factor	slant-panel table station
Successor Class	WSD 161 digital sibling shape

PARAMETER	VALUE
Sensor Class	PTC in iron (PT22 class listings)

WECP Specifications

PARAMETER	VALUE
Applications	Electronics assembly and rework using a 24 V isolated Weller iron with analog 150-450 C control.
Key Features	150 to 450 C analog electronic control
Technical Specifications	Model: WECP-20

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.

technical data lists continuous electronic temperature control 150 to 450 C, LR-21 antistatic iron 24 V / 50 W, heater isolation 500 V, SELV 24 VAC galvanically isolated from mains, mains 230 V (240 V, 120 V overlays) 50/60 Hz, heater voltage 24 V 50/60 Hz, iron power max 50 W at 24 V, mains fuse T0.315 A (5x20), regulation tolerance plus or minus 2 percent of end value, dimensions 115 x 150 x 94 mm, mass 2.1 kg, 5-pole lockable iron connector. Coded 350 C / 385 C plug overlays exist. ET-series tips 0.8 to 5.6 mm.

Applications
Electronics assembly and rework using a 24 V isolated Weller iron with analog 150-450 C control.

Key Features
150 to 450 C analog electronic control
LR-21 24 V 50 W antistatic iron
Plus or minus 2 percent of full-scale regulation
T0.315 A mains fuse, 2.1 kg station
500 V heater isolation, SELV 24 VAC

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	WECP-20
Instrument Type	Electronically controlled soldering station
Family	Weller WECP / Cooper Tools
Temperature Range	150 C to 450 C continuous analog
Iron	LR-21 antistatic 24 V / 50 W
Heater Isolation	500 V
Heater Voltage	24 V, 50/60 Hz SELV
Iron Power	max 50 W at 24 V
Mains Voltage	230 V (240 V and 120 V overlays), 50/60 Hz
Mains Fuse	T0.315 A (5 x 20 mm)
Regulation Tolerance	plus or minus 2 percent of end value
Dimensions	115 x 150 x 94 mm (WxDxH)
Mass	2.1 kg
Iron Connector	5-pole lockable
Status Led	continuous on heating, flash in pulse regulation, off when over temp (TRIAC off)
Output Stage	TRIAC TIC 225M class
Control Ics	78L05, LM358, SL443A pulse generator
Tip Family	ET-A through ET-H / ET-S 0.8 to 5.6 mm

PARAMETER	VALUE
Coded Plugs	350 C and 385 C coding-plug overlays
Manufacturer	Weller Tools / Cooper Hand Tools
Literature	Weller WECF-20 technical data / operating instructions
System Role	benchtop soldering station
Safety	tools galvanically isolated from mains at 24 VAC SELV
Form Factor	slant-panel table station
Successor Class	WSD 161 digital sibling shape
Sensor Class	PTC in iron (PT22 class listings)

Notes

From Weller WECF-20 technical data (150-450 C, LR-21 24 V 50 W, plus or minus 2 percent, 115x150x94 mm, 2.1 kg, T0.315 A). Confirm 120 V versus 230 V mains overlay on the installed nameplate.

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
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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.