



## MEA-100B - AC Resistance Welding Power Supply

The MEA-100B - AC Resistance Welding Power Supply is perfectly suited for the precision resistance welding of small-sized components. This high performance AC resistance welding power supply capable of delivering up to 8,000 A output. It offers an intuitive user interface for easy operation, combined with a compact, desktop footprint.

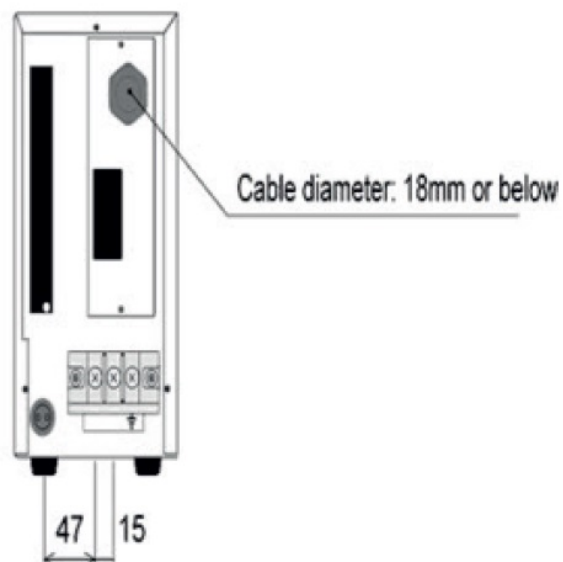
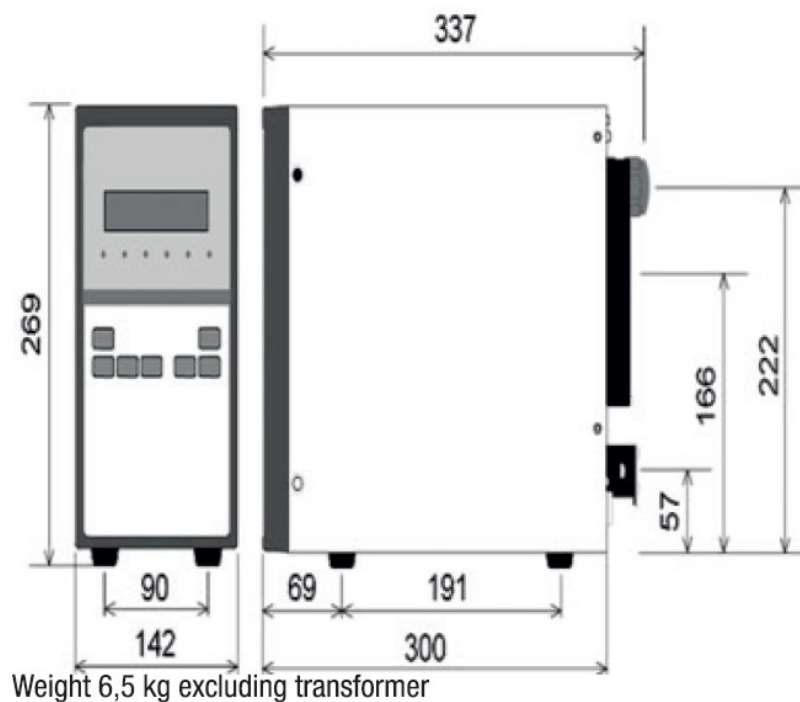
### Key features MEA-100B - AC Resistance Welding Power Supply

- > Four weld control modes to enable single-cycle, half-cycle and multi-cycle welding
- > The MEA-100B has a built-in weld monitor: upper and lower limits can be set to monitor the weld quality
- > Secondary constant current control (multi-cycle welding) , offering secondary current feedback every half cycle ensures stable current flow.
- > Stepper function: The stepper function increases or decreases the welding current when the weld count reaches a set value. This function is used to compensate for electrode wear or to accommodate increased temperatures within an electrode or work piece.
- > Single-cycle welding: first half and second half waves may be programmed separately for small parts welding.
- > Half-cycle welding: added precision with half cycle welding capability.
- > Power supply voltage fluctuation compensation control, compensating current every half cycle in accordance with fluctuation of power supply voltage.

## Specifications MEA-100B - AC Resistance Welding Power Supply

<b>Model</b>	MEA-100B AC Resistance Power Supply	
<b>Power requirements</b>	Single phase, 200/220/230/240/380/400/460/480VAC +13% -20%, 50/60Hz (Voltage is selectable but factory-fixed on shipment)	
<b>Max. capacity</b>	20kVA (10% @200VAC), 26kVA (10% @400VAC), 31kVA (10% @480VAC)	
<b>Control modes</b>	1) Secondary constant current control 2) Power-supply voltage compensation control	
<b>Welding mode</b>	1) Multiple cycle, 2) Single cycle, 3) Half cycle	
<b>Control speed</b>	Half cycle	
<b>Welding current accuracy</b>	@ Secondary constant-current control (when the current is set to the maximum value) Supply voltage fluctuation Resistance load fluctuation*) } within $\pm 2\%$ for a fluctuation of $\pm 10\%$ Inductive load fluctuation*) *) Fluctuation from our standard load.	
<b>Timer setting</b>	@ Multiple cycle mode	@ Multiple cycle mode Initial force apply, Weld 1, Cool, Weld 2, Hold 0 – 99 cycles Upslope 1, Upslope 2, Down slope 0 – 9 cycles Pulsation 1 – 9 times
<b>Timer setting range: Squeeze delay</b>	@ Single cycle mode	Initial force apply, Hold 0 – 99 cycles, First half wave/Second half wave 0.5 cycles
<b>Timer setting</b>	@ Half cycle mode	Initial force apply, Hold 0 – 99 cycles, Half wave 0.5 cycles
<b>Current setting range</b>	@ Secondary constant current control mod	Current 1, Current 2 0.20 – 9.99kA (by 0.01kA)
<b>Current setting range</b>	@ Power-supply voltage compensation control mode	Current 1, Current 2 0.0 – 99.9% (by 0.1%)
<b>Current monitoring</b>	@ Secondary constant current control mode	Upper limit setting: +1 - +49% Lower limit setting: -1 – -49%
<b>Current monitoring</b>	@ Power-supply voltage compensation control mode	Upper limit setting: 0.01 – 9.99kA (by 0.01kA) Lower limit setting: 0.01 – 9.99kA 'by 0.01kA)
<b>Option</b>	MB-400K Toriodal coil (required at secondary constant current control)	
<b>External communication</b>	RS-482, bi-directional communication	
<b>Operating environment</b>	Temperature: 0 – 45 degree C, Humidity: 90% or below (No condensation)	
<b>Power consumption</b>	15W or less in stand-by	
<b>Global standards</b>	CE and CCC Certified	
<b>WEIGHT &amp; DIMENSIONS</b>	.	
<b>Dimensions (LxWxH)</b>	418 mm x 142 mm x 269 mm (16.4 in x 5.6 in x 10.6 in)	
<b>Weight</b>	6.5 kg (14.3 lb)	

Drawings MEA-100B - AC Resistance Welding Power Supply



Product applications MEA-100B - AC Resistance Welding Power Supply



Electronics



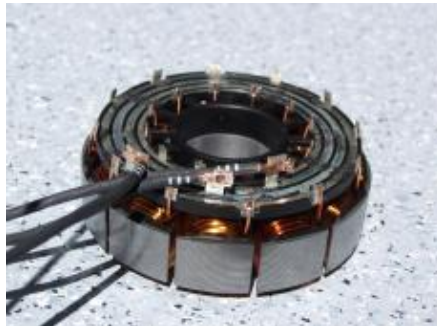
Electronics



Automotive



Automotive



Automotive



Medical

# AMADA<sup>®</sup>

## AMADA WELD TECH

### OUR TECHNOLOGIES



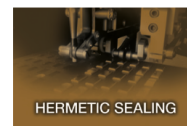
RESISTANCE WELDING



LASER WELDING



LASER MARKING



HERMETIC SEALING



HOT BAR REFLOW  
SOLDERING & BONDING



SYSTEMS SOLUTIONS

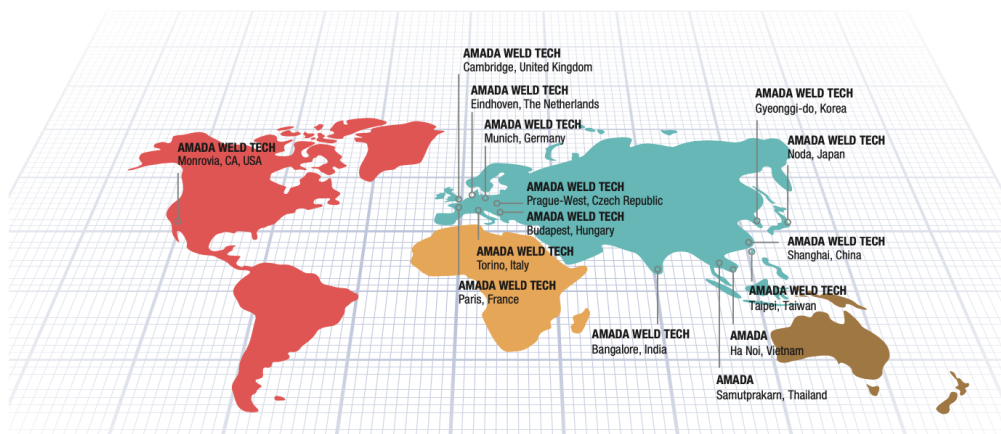


LASER CUTTING



MICRO TIG WELDING

### OUR SALES OFFICES



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