#### AC Welding Power Supply



### **MEA-100A**

Best for precision resistance welding of small parts.

#### **Features**

- Clear display with LED.
- Up to thirty one schedules can be set.
- Easy setting by seven press keys.
- Four welding control systems: Multiple cycle welding/ secondary constant current control, multiple cycle welding / voltage compensated control, single cycle welding/ voltage compensated control, and half cycle welding / voltage compensated control.
- An automatic maximum current configuration.
   The maximum current setting is automatically configured through test run to optimize the performance of the device.
- The welding current is monitored using the a toroidal coil.

  The upper and lower current limits can be fixed. This will aid the quality control.
- Support for export.
   CCC supported. There are also 480V version for USA.





## **Specifications**

Model	MEA-100A			
Power requirement *	Single-phase Automatic switching (The voltage can be switched, but the factory setting is fixed.)			
Maximum capacity	20kVA (10% duty cycle, 200VAC Input) / 26kVA (10% duty cycle, 400VAC Input) / 31kVA (10% duty cycle, 480VAC Input)			
	1. Secondary constant current control type			
Control method	2. Power supply voltage fluctuation compensation control type			
Welding current control	1. Multi - cycle welding			
	2. Single - cycle welding			
	3. Half - cycle welding			
Control speed	Half - cycle			
Current accuracy		±2% max. of power supply voltage fluctuation ±10% ±2% max. of load fluctuation ±10%		
	For secondary constant current control	±2% max. of load fluctuation ±10%		
	For power supply voltage fluctuation compensation control	±3% max. of power supply voltage fluctuation ±10%		
Timer setting (31 schedules)	Multi - cycle welding	Squeeze, weld 1, cool, weld 2, hold 0 - 99cycles Upslope 1, upslope 2, downslope 0 - 9cycles Pulsation 1 - 9times		
	Single - cycle welding	Squeeze, 0 - 99cycles First-half wave, second-half wave 0.5cycle		
	Half - cycle welding	Squeeze, 0 - 99cycles Half wave		





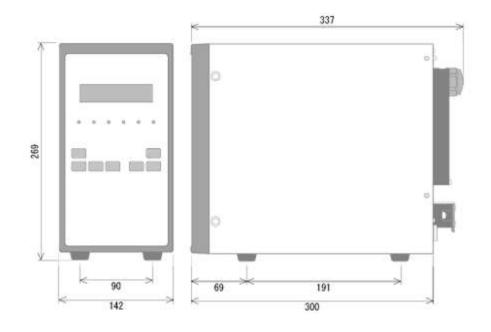
		0.5cycle		
Current value setting range (31 schedules)	For secondary constant current control	Current value 1, current value 2 0.20 - 9.99kA (0.01kA unit)		
	For power supply voltage fluctuation compensation control	Current value 1, current value 2 0.0 - 99.9kA (0.1% unit)		
Current monitoring (31 schedules)	For secondary constant current control	Upper limit setting: +1 to +49% Lower limit setting: -1 to -49%		
	For power supply voltage fluctuation compensation control	Upper limit setting: 0.01 - 9.99kA (0.01kA unit) Lower limit setting: 0.01 - 9.99kA (0.01kA unit)		
Options	Toroidal coil MB-35E (Required for secondary constant current control)			
Ambient temperature and huidity	Temperature = 0 to 45°C Humidity = 90% max.(No condensation)			
Power consumption	For standby 15W max.			
Mass	6.5kg			

• \* Set at the factory





### **External view**





# **Corresponding transformer**

Model	MT-510AC	MT-520AC	MT-530A	MT-25	
Rated capacity	1.0kVA	3.2kVA	6kVA	11.1kVA	
Rated primary voltage	200VAC +/-10%				
Rated secondary voltage	1.2V/ 1.8V/ 2.5V/ 3.5V (Without Load)	2.5V/ 3.2V/ 4.0V/ 5.0V (Without Load)	50Hz: 2.7V/3.4V/ 4.3V/5.3V 60Hz: 2.2V/2.8V/ 3.6V/4.4V (Without Load)	2.6V/ 4.0V (paralell) 5.3V/ 8.0V (straight)	
Input frequency	50/60Hz				
Maximum output current	1600A	3700A	50Hz: 6600A 60Hz: 5500A	8000A	
Duty factor (@100ms)	1.5% or below				
Cooling method	Air cooling	Water cooling			
Dimensions and Mass	193W x 284D x 177.3H mm / 20kg	182.5W x 358D x 199.5H mm / 35kg	228W x 370D x 244H mm / 52kg	180W x 370D x 240H mm / 60kg	



