

AMADA WELD TECH

FINE SPOT-INVERTER

IS-800A/1400A

DC Inverter-controlled Welding Power Supply

Precision waveform control ensures high quality welding!

Perfect solution for quality improvement of fusing.



IS-800A

IS-1400A

Features

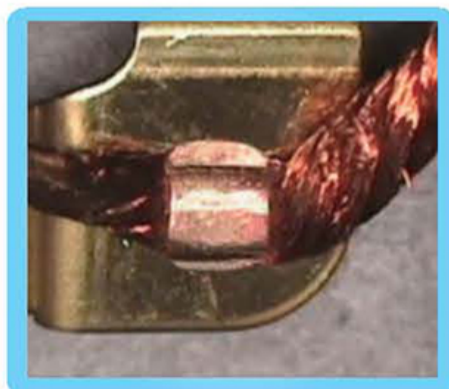
- 1) Pulse limit control and Voltage compensation feature enable detailed parameter settings.
- 2) Ground fault and short-circuit protections ensure the safety better.
- 3) Adjustable welding frequency from 600 to 3000kHz with 100Hz increment.
- 4) Program protect feature prevents false operation due to unintended touches to the screen.
- 5) Up to the third welding is controllable. Pulsation and other control modes can be set for each welding.
- 6) The analog output terminal (voltage output proportional to force) for force control with electropneumatic proportional valve and the analog input terminal (voltage input proportional to force) for force measurement have two channels, respectively. (Only IS-800A/1400A-20-□□)
- 7) Welding can be stopped at the set displacement by connecting the displacement gauge and measuring the displacement produced in fusing. (Only IS-800A/1400A-20-□□)

Applications



◀ A crimping terminal and covered wires

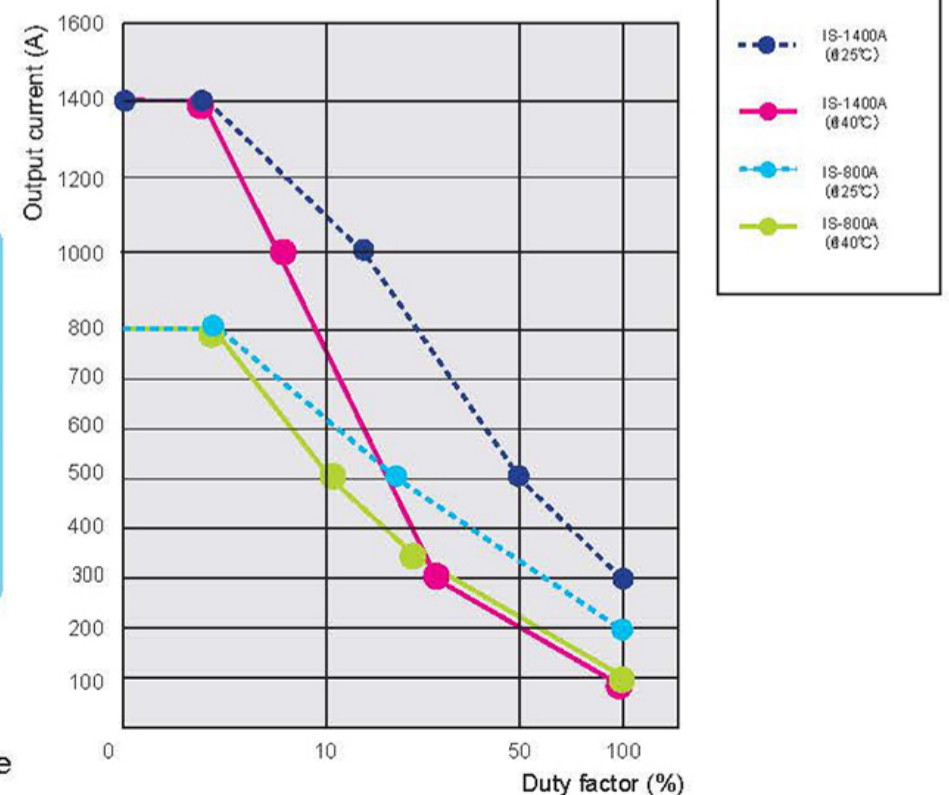
Multiple wires and a terminal ▶



◀ A brass terminal and a stranded wire



Duty factor and Output current



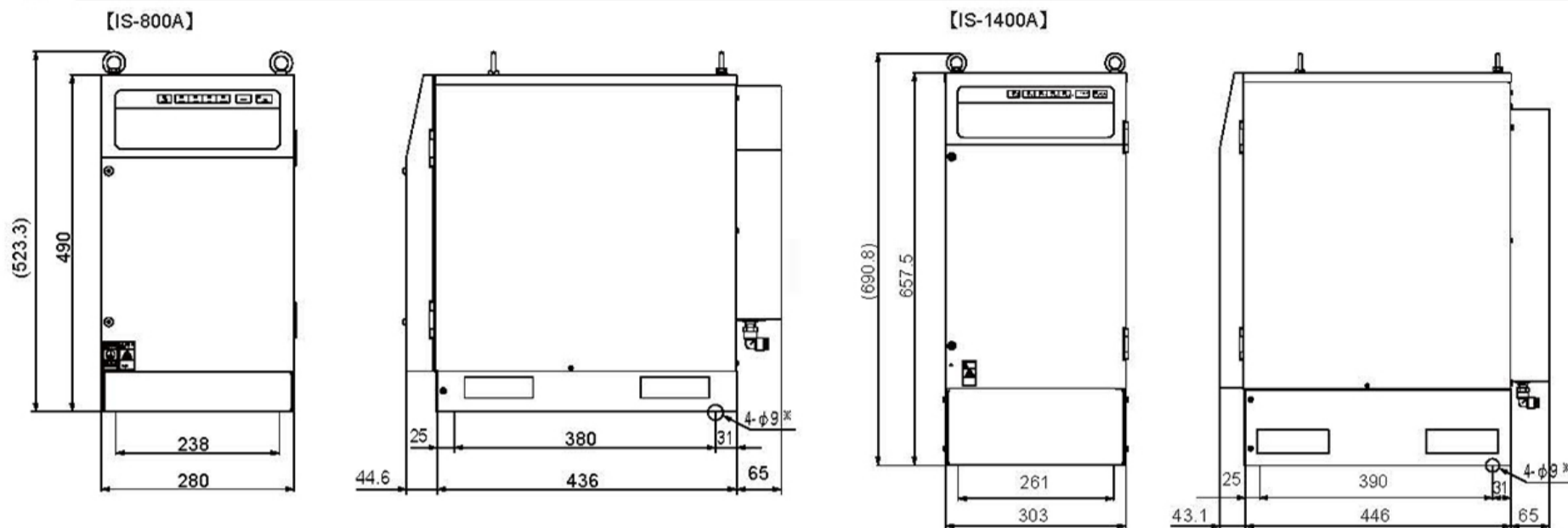
FINE SPOT-INVERTER

IS-800A/1400A

DC Inverter-controlled welding power supply

External views

Unit: mm



※ For fixing the Power Supply. Remove the cover plate on the base front to tighten screws.
Recommended caster (M8 nut)
No.303T (without brake) TOCHIGIYA CO.,LTD.
No.303TS (with brake) TOCHIGIYA CO.,LTD.

Specifications

Model	IS-800A-10-10 / -20-20	IS-800A-10-11 / -20-21	IS-1400A-10-10 / -20-20	IS-1400A-10-11 / -20-21
Power requirements	Three phase, 380-480VAC ±10% (50/60Hz)	Three phase, 200-240VAC ±10%(50/60Hz)	Three phase, 380-480VAC ±10% (50/60Hz)	Three phase, 200-240VAC ±10%(50/60Hz)
Maximum output current	800A (3%)		1400A (3%)	
Number of schedules	255			
Control method	Primary current RMS/ Secondary current RMS/ Secondary power RMS/ Primary current PEAK/ Secondary voltage RMS/ Constant phase			
Timer setting	msec mode		cyc mode	
	SQUEEZE DELAY	0000 - 9999msec	000 - 999cyc	
	SQUEEZE	0000 - 9999msec	000 - 999cyc	
	UP SLOPE 1,2,3	000 - 999msec	00 - 50cyc	
	WELD 1,2,3	000 - 999msec	00 - 50cyc	
	DOWN SLOPE 1,2,3	000 - 999msec	00 - 50cyc	
	COOL 1,2	000 - 999msec	00 - 99cyc	
	HOLD	00000 - 20000msec	000 - 999cyc	
OFF	0 or 0010 - 9990msec	00 - 99cyc		
Transformer turn ratio	1.0 - 199.9			
Pulsation setting	01 - 19			
Valve setting	2 valves (VALVE1, VALVE2)			
Setting range	Constant current	0.20 - 40.0kA / 0.10 - 20.0kA		04.0 - 80.0kA / 02.0 - 40.0kA
		0.50 - 9.99kA / 0.05 - 5.00kA		01.0 - 20.0kA / 0.50 - 9.99kA
	Constant power	0.20 - 60.0kW / 0.10 - 20.0kW		0.40 - 120.0kW / 02.0 - 60.0kW
		0.50 - 9.99kW / 0.05 - 5.00kW		01.0 - 20.0kW / 0.50 - 9.99kW
Constant voltage	0.20 - 9.99			
Constant phase	10.0 - 99.9			
Current monitor	HIGH 0.00 - 9.99kA / LOW 0.00 - 9.99kA		HIGH 00.0 - 99.9kA / LOW 00.0 - 99.9kA	
Power monitor	HIGH 0.00 - 9.99kW / LOW 0.00 - 9.99kW		HIGH 00.0 - 99.9kW / LOW 00.0 - 99.9kW	
Cooling method	Forced water cooling			
Pulse width monitor	010 - 100%			
Installation environment	Ambient temp.	5 - 40°C		
	Max. humidity	90% (No condensation)		
	Max. altitude	1000m or below		
External communication	Direction	Single or both		
	Method	RS-232C/RS-485		
Program protect	Contents alteration is prohibited			
Weight	38kg		60kg	

AMADA WELD TECH CO., LTD.

Specifications are subject to change without notice.

- AMADA WELD TECH INC.
- AMADA WELD TECH LTDA.
- AMADA WELD TECH GmbH.
- AMADA WELD TECH KOREA CO., LTD.
- AMADA WELD TECH SHANGHAI CO., LTD.
- AMADA WELD TECH TAIWAN CO., LTD.
- AMADA VIETNAM CO., LTD.
- AMADA (THAILAND) CO., LTD.
- AMADA WELD TECH INDIA PVT., LTD.