

AMADA WELD TECH

FINE SPOT-INVERTER

IS-300A

DC inverter-type welding power supplies

*Compact and high power!
High quality fusing!*



Features

- Compact and high power
- Detailed weld schedules can be set

Six control method

- Primary constant-current effective value control
- Secondary constant-current effective value control
- Secondary constant-power effective value control
- Primary constant-current peak value control
- Secondary constant-voltage effective value control
- Constant-phase control

Pulsation, upslope/downslope, Weld stop and control systems can be set for WELD1 to WELD3, respectively

Power supply voltage fluctuation compensation control (effective when PULSE LIMIT is set)

- Transformer selecting function

Up to five transformers can be connected with IS-300A by an optional MA-650A the transformer selector. This function contributes to the improvement in productivity.

MA-660A Program unit

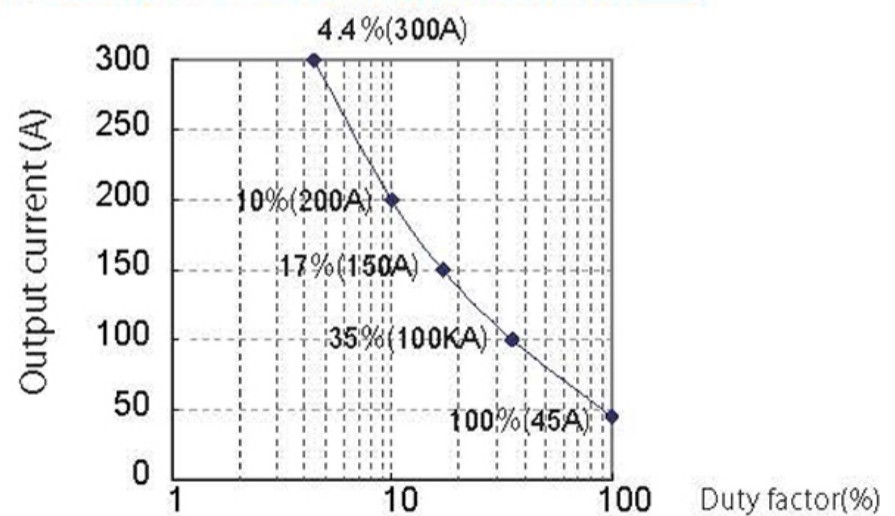
- Employing an easily viewable color LCD. Current, voltage, or power can be monitored.
- You can select the language from Japanese, English, Chinese, and Korean.
- Installation : Vertical placement Allowed

Application



Fusing of covered wires

Duty factor and output current

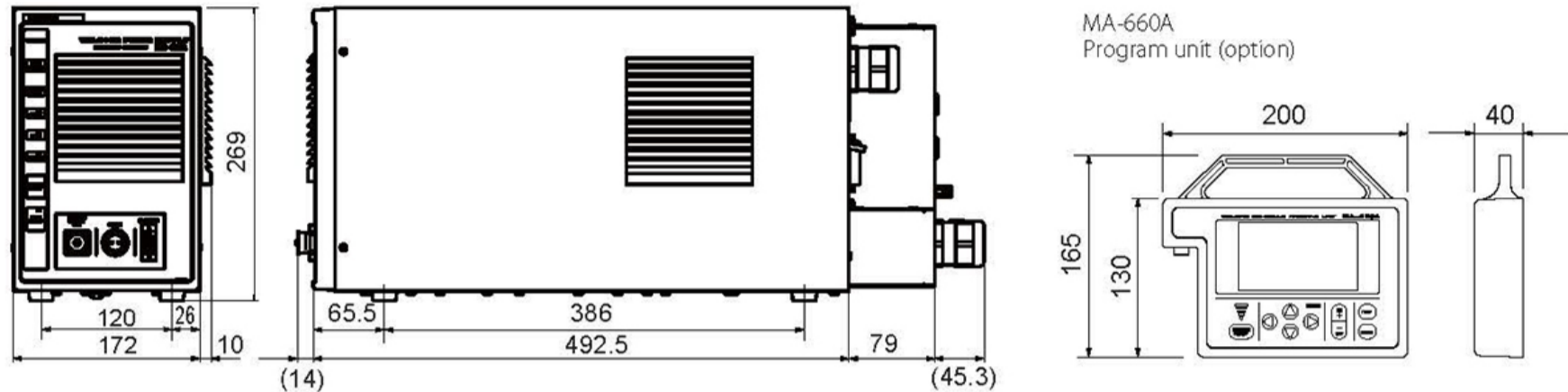


FINE SPOT-INVERTER

IS-300A

DC inverter-type welding power supplies

External dimensions Unit: mm



Specifications

		IS-300A-00-00	IS-300A-00-01
Power requirements (Fixed at ex-factory)		3-phase, 200 to 240 VAC $\pm 10\%$ (50/60 Hz)	3-phase, 380 to 480 VAC $\pm 10\%$ (50/60 Hz)
Max. output current		300A (Peak value)	
Number of schedules		255	
Output frequency		600~3000Hz(in units of 100 Hz)	
Control method		Primary constant-current effective value control, Secondary constant-current effective value control, Secondary constant-power effective value control, Primary constant-current peak value control, Secondary constant-voltage effective value control, and Constant-phase control	
Timer setting range		msec mode	cyc mode
	SQUEEZE DELAY	0000~9999ms	000~999cyc
	SQUEEZE	0000~9999ms	000~999cyc
	UP SLOPE 1,2,3	000 ~ 999ms	00 ~ 50cyc
	WELD 1,2,3	000 ~ 999ms	00 ~ 50cyc
	DOWN SLOPE 1,2,3	000 ~ 999ms	00 ~ 50cyc
	COOL 1,2	000 ~ 999ms	000~999cyc
	HOLD	00000~20000ms	000~999cyc
	OFF *1	0 or 0010~9990ms	00 ~ 99cyc
Transformer turns ratio		1.0~199.9	
Pulsation setting		01~19 (settable for WELD1 to WELD 3, respectively)	
Valve setting		2 valves (VALVE1, VALVE2)	
Setting range		Constant current control : 0.1~20.0kA*2	Constant power control : 0.1~20.0kW
		Constant voltage control : 0.20 ~ 9.99V	Constant phase control : 10.0 ~ 99.9%
Monitor	Current	HIGH 0.00 ~ 9.99kA / LOW 00.0 ~ 99.9kA	
	Power	HIGH 00.00 ~ 99.99kW / LOW 000.0 ~ 999.9kW	
	Voltage	0.00 ~ 9.99V	
	Pulse width	010.0 ~ 100.0%	
Protective functions	Over current	150 A Fuse	
	No-current	Power is turned off in the following cases: a. When a secondary current is not detected in Secondary constant-current effective value control, Secondary constant-power effective value control, or Constant-phase control. b. When a primary current is not detected in Primary constant-current effective value control or Primary constant-current peak value control.	
	No-voltage	Under Secondary constant-voltage effective value control or Secondary constant-power effective value control, the supply of current is stopped when a secondary voltage cannot be detected.	
	Temperature	Overheating of power unit of inverter and welding transformer are detected.	
	Self-diagnostic error	Setting dates (e.g., schedule settings) are diagnosed.	
Data communication		RS-232C / RS-485(One-way · Both-way)	
Program protect		Contents alteration is prohibited	
Mass		16.5kg	
Corresponding transformer		SIT-F241-HC / IT-H1062A3W / ITH-1050C6W / ITI-875A6W / ITH-651C6W	

*1 No repetitive operation will be performed if "0" is selected for OFF (off time).

*2 Primary current can be set up to 300 A.

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.

5R_200202E