

## ■ DC Inverter Spot Welding / Fusing Power Supply **NEW**

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### IS-300A

**Compact and high power!  
High quality fusing!**

### Features

- Compact and 1.5 times higher output than that of the conventional model IS-120B.
- Detailed weld schedules can be set.
- Six control types  
You can choose from; "Primary constant-current RMS," "Secondary constant-current RMS," "Secondary constant-power RMS," "Primary constant-current PEAK control," or "Constant-phase" to attain stable welding quality.
- Different setting can be set at each welding.  
Pulsation, Upslope, Downslope and Weld stop.
- Power supply voltage fluctuation compensation control (effective when PULSE LIMIT is set)  
The pulse limit is corrected according to the fluctuation in the power-supply voltage on the primary side.  
This function is valid only in the primary constant-current PEAK control mode (PLM).
- 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.
- Interrupt feature  
Interrupt feature functions when a displacement amount reaches up to set level and

stops current to obtain more stable fusing. For this feature, it needs to be connected with a weld checker with a built-in displacement monitor and set a displacement amount of electrodes beforehand.

- Program unit MA-660A (Sold Separately)  
Employing an easily viewable color LCD. Current, voltage, or power can be monitored.
- Multilingual software  
You can select the language from Japanese, English, Chinese, and Korean.
- Samples



▲ Fusing of covered wires



▲ Multiple wires and a terminal



▲ Terminal and lead wire

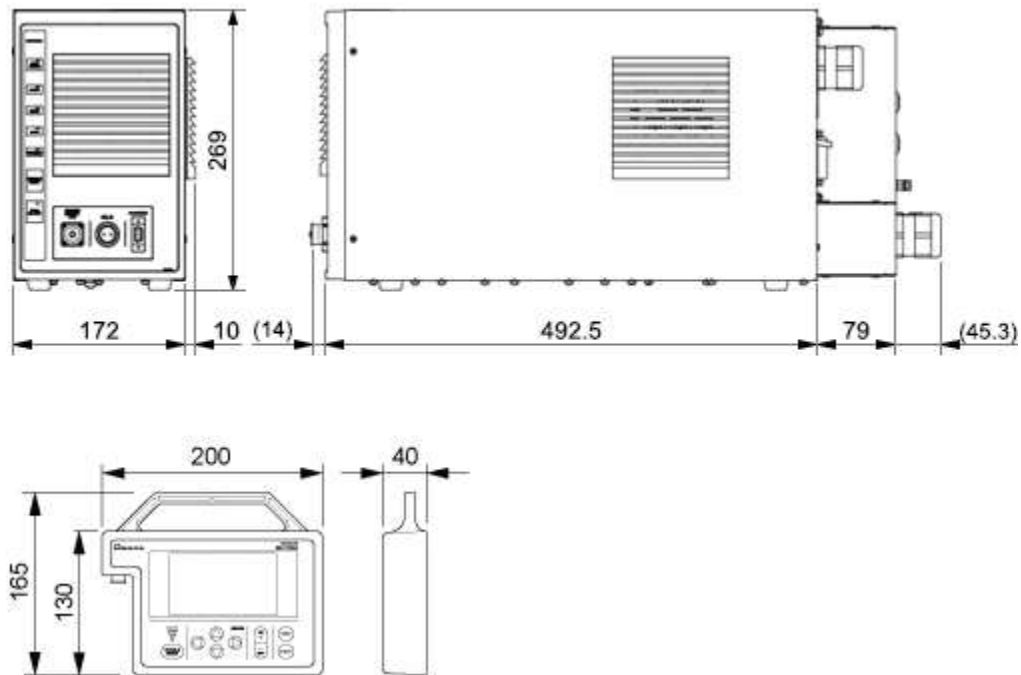
## Specifications

Model		IS-300A-00-00	IS-300A-00-01
Power requirements (Fixed at ex-factory)		3-phase, 200–240 VAC ±10% (50/60 Hz)	3-phase, 380–480 VAC ±10% (50/60 Hz)
Max. output current		300A (Peak value)	
Number of schedules		255	
Output frequency		600Hz~3kHz (In 100 Hz increments)	
Control method		Primary constant-current RMS Secondary constant-current RMS Secondary constant-power RMS Primary constant-current PEAK (with pulse width limit function) Secondary constant-voltage RMS 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	
Valve setting	2	
Setting range (1)Constant current *2 (2)Constant power (3)Constant voltage (4)Constant phase	(1)0.1 ~ 20.0kA (2)0.1 ~ 20.0kW (3)0.20 ~ 9.99V (4)10.0 ~ 99.9%	
Current monitor	00.0 ~ 99.9kA / 0.00 ~ 9.99kA	
Power monitor	000.0 ~ 999.9kW / 00.00 ~ 99.99kW	
Voltage monitor	0.00 ~ 9.99V	
Pulse width monitor	HIGH 10.0 ~ 100%	
Cooling method	Forced air-cooling	
Data communication	RS-232C (One-way communication) / RS-485 (Bidirectional communication)	
Operating environment	Ambient temperature	+5 ~ +40°C
	Humidity	90% max. (no condensation)
	Altitude	1000m max.
Weight	16.5kg	

- \*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.

## External view



## Corresponding transformer

Model	ITH-651C6W	ITI-875A6W	SIT-F241-HC
Rated capacity	26.8kVA	37.1kVA	75kVA (50%)
Rated primary voltage	300V/600V		300V
No-load secondary voltage	9.3V	12.5V	11.7V
Transformer turns ratio	32:1/64:1	24:1/48:1	24:1
Input frequency	1kHz		
Maximum welding current	7000A	7000A	14400A
Duty cycle	8.5%	9%	10%

Fan voltage	DC24V		-
Cooling method	Forced air-cooled		
Weight	16kg	19kg	35kg
Outline dimensions (mm) *	168(W) x 398(D) x 199(H)	168(W) x 446(D) x 199(H)	180(W) x 481(D) x 240(H)

\* Include projections