

■ DC Inverter Spot Welding / Fusing Power Supply (IS series)



IS-473C

High-speed inverter welding power supply with high-capacity IGBT!

Features

- Interrupt feature supports stable fusing.
- Small size but high duty factor.
- Selectable welding time units.
- Fifteen weld schedules for various applications.
- Selectable control frequency: 600Hz, 800Hz, or 1kHz.
- Five control types: Constant power, secondary constant current effective value, primary constant current peak value, primary constant current effective value, and constant phase.
- Three monitoring items: Power, current, and voltage.

Specifications

	For seam welding and roll spot welding	
Model	IS-473C	
Power requirements *1	3-phase 220 / 400 / 440 / 480VAC +10% -15% 50/60Hz (IS-120B can also use 240 / 380V)	
Control frequency	Switchable among 1kHz, 800Hz, and 600Hz	
Maximum output current	2000A (12% duty cycle)	
Control method	Primary constant current (peak value, effective value), secondary constant current, constant power, constant phase	
Welding schedules	15 schedules (64 schedules *3)7 schedules	
Timer setting		cycle mode
	SQUEEZE DELAY	000 - 999cyc
	SQUEEZE	000 - 999cyc
	DELAY	-
	WELD1, 2 *2	00 - 30cyc
	UP SLOPE	
	DOWN SLOPE	00 - 20cyc
	COOL	
	HOLD	00 - 99cyc
	OFF	00 - 99cyc
	PULSATION	1 - 9
Heat setting		4.0 - 80.0kA
		4.0 - 80.0kW
		-

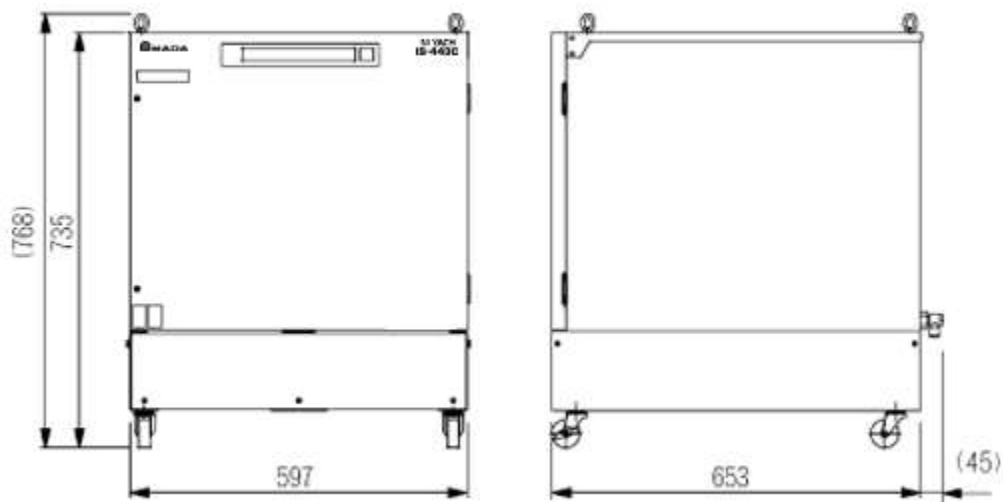
	10.0 - 99.9%
Cooling system	Water cool, 6L / min. Water temp. 35°C max.
Mass	126kg

- *1 Set at the factory
- *2 Includes upslope and downslope.
- *3 Optional

The specification and external design are subject to change without notice.

External view

- IS-473C



Corresponding transformer

Power requirements	220VAC			
Model	ITH-651B6W	ITG-1050B6W	MIR83-34560	MIR115-39060
Rated capacity	26.8kVA	40.7kVA	45kVA	90kVA
Rated primary voltage	300V			
No-load secondary voltage	9.3V	15V	8.3V	11.5V
Input frequency	1kHz		600Hz/1kHz	
Maximum output current	7000A		13000A	18000A
Duty factor	8.5%	7.5%	10%	
Cooling method	Water cooling			
Dimensions and mass	168W x 398D x 199H mm / 16kg	168W x 439D x 199H mm / 21kg	96W x 213.5D x 155H mm / 12kg	167W x 435D x 155H mm / 23kg
Maximum output current when IS-444C is used	7000A		13000A	
Maximum output current when IS-471C is used	7000A		13000A	18000A
Power requirements	440VAC			
Model	ITH-651B6W	ITG-1050B6W	MIR83-34560	MIR115-39060
Rated capacity	26.8kVA	40.7kVA	45kVA	90kVA
Rated primary voltage	600V			

No-load secondary voltage	9.3V	15V	8.3V	11.5V
Input frequency	1kHz		600Hz/1kHz	
Maximum output current	7000A		13000A	18000A
Duty factor	8.5%	7.5%	10%	
Cooling method	Water cooling			
Dimensions and mass	168W x 398D x 199H mm / 16kg	168W x 439D x 199H mm / 21kg	96W x 213.5D x 155H mm / 12kg	167W x 435D x 155H mm / 23kg
Maximum output current when IS-444C is used	7000A		13000A	
Maximum output current when IS-471C is used	7000A		13000A	18000A