

## ■ DC Inverter Seam Welding / Roll Spot Welding Power Supply (IS series)

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### IS-443C/470C/472C

Designed for easy integration into a system.

#### ■ 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-470C	IS-472C
Power requirements *1	3-phase 220 / 400 / 440 / 480VAC +10% -15% 50/60Hz	
Control frequency	Switchable among 1kHz, 800Hz, and 600Hz	
Maximum output current	1000A(12% duty cycle)	2000A(12% duty cycle)
Control method	Primary constant current (peak value, effective value), constant phase	
Welding schedules	7 schedules	
Timer setting		ms mode
	SQUEEZE DELAY	-
	SQUEEZE	0000 - 9999ms
	DELAY	000 - 999ms
	WELD	000 - 600ms
	UP SLOPE	000 - 400ms
	DOWN SLOPE	-
	COOL	
	HOLD	000 - 999ms
	OFF	-
PULSATION	-	
Heat setting (HEAT1,2,and3 configurable)	2.0 - 40.0kA	4.0 - 80.0kA
	-	
	-	
	10.0 - 99.9%	

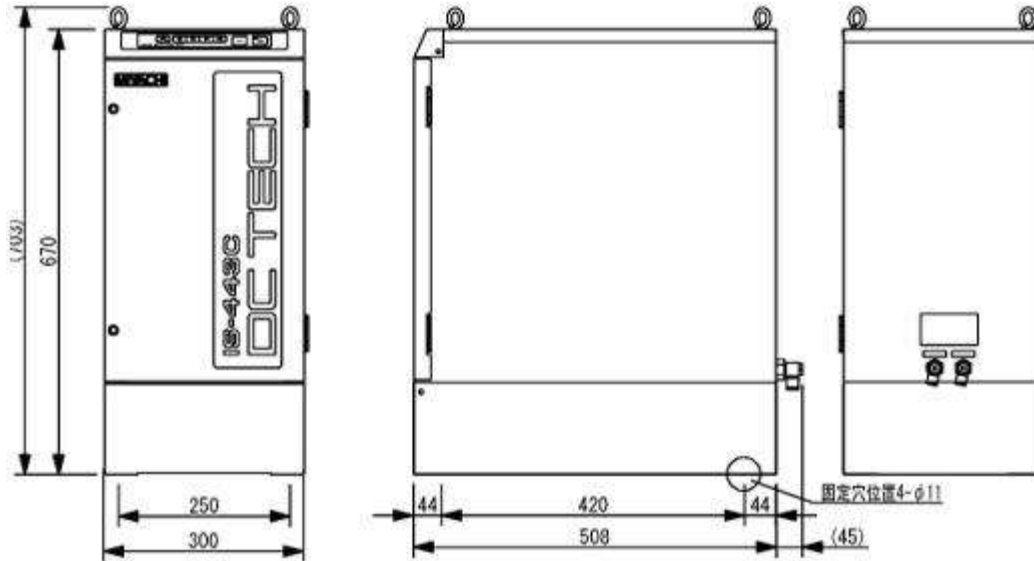
Cooling system	Water cool, 6L / min. Water temp. 35°C max.	
Mass	63kg	126kg

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

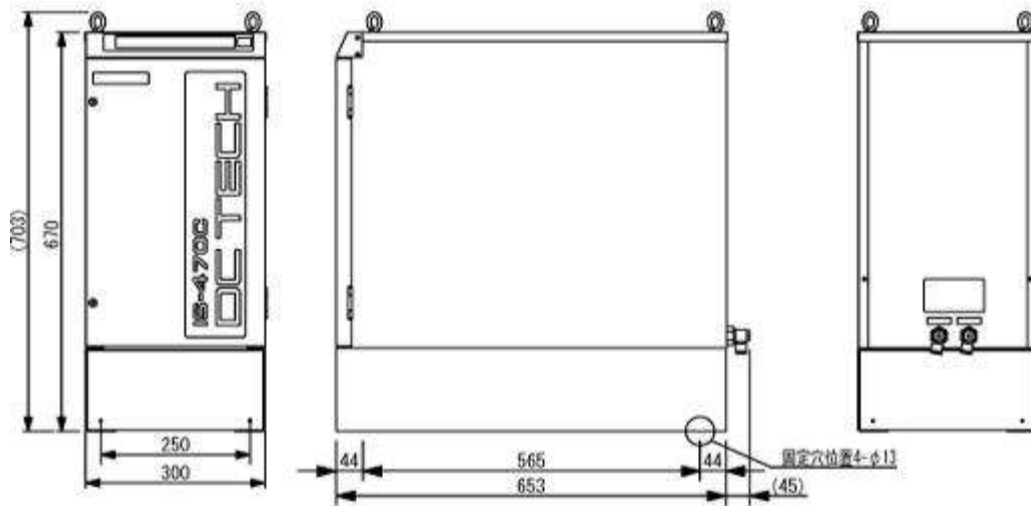
The specification and external design are subject to change without notice.

## External view

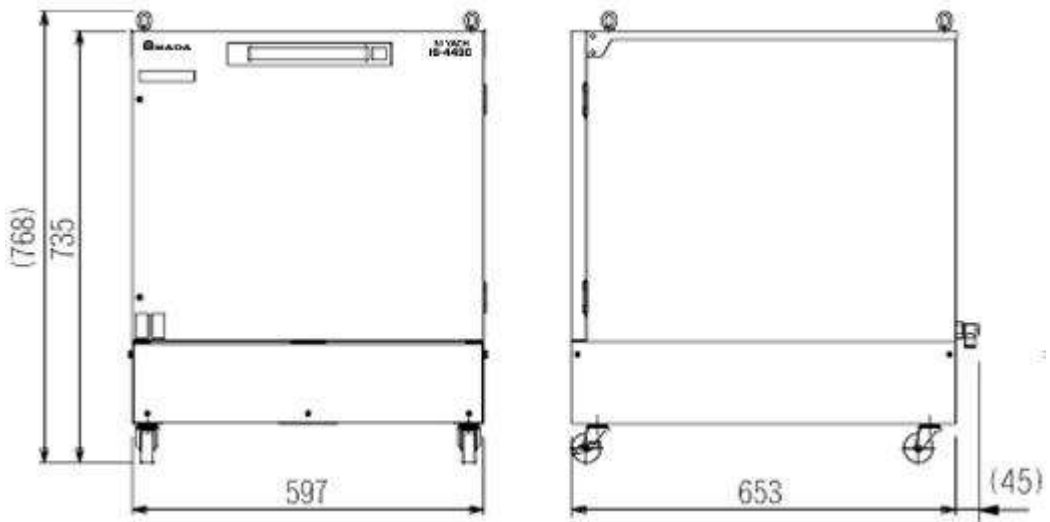
IS-443C



IS-470C



■ IS-472C





## Corresponding transformer

Power requirements	220VAC			
Model	ITH-651C6W	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-651C6W	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			

