

# NRW-IN8400A

## Inverter Type

## Resistance Welder



Current Stop Time Variation within 1 ms

Most Suitable for On-vehicle Motor Coils Fusing!

Highly Responsive  
Current Feedback Control

Achieved high-quality welding with  
stable displacement amount

Multi-function  
Pulsation Function

Maximum Current 8000 A

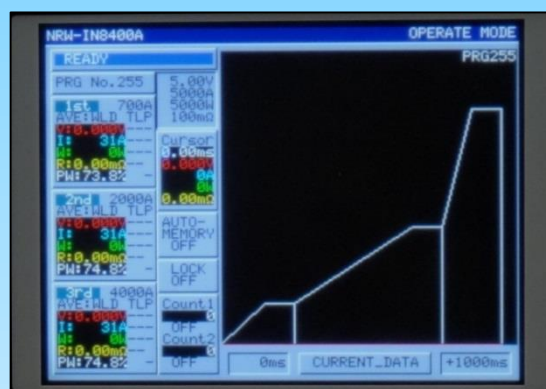
High-quality Inverter Type Welding Power Supply

- **Current Stopping Time Variation within 1 ms**  
Reduce the error in the displacement amount of workpiece.
- **Time and Output of Pulsation can be Set Arbitrarily**  
Totally 24 times of pulsation can be set arbitrarily. Achieves optimum welding by minimizing thermal effects on workpiece.
- **CAUTION Input Function**  
Combination with PLC enables adjustment of welding output based on displacement amount or temperature data.  
Avoid the influence by fluctuations in resistance .
- **Pulse Width Monitor Function**  
Displaying the mean inverter output during a weld makes it possible to check for margin up to the maximum output.
- **255 Programs**  
Program switching for fusing in small-volume, many-model manufacturing fusing has been implemented.
- **Water-cooling Transformer**  
Combination with water-cooling transformer improves duty cycle.
- **Variety of Monitoring Functions**  
Secondary-side current, voltage, power, and resistance data are displayed in graph form for monitoring to enable judgement of weld quality.
- **Easy to Operate and Easy-to-read Screen**  
5.7-inch color TFT LCD



Transformer  
NT-IN8444

Welding Power Supply  
NRW-IN8400A

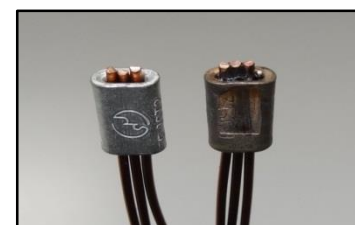
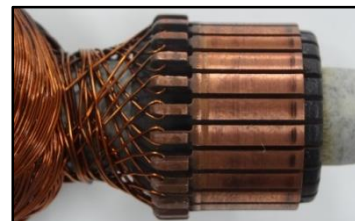


5.7-inch color TFT LCD

## ■ Inverter Welder

Items	NRW-IN8400A
Control Frequency	2 kHz
Control Mode	Constant Current, Constant Peak Current, Constant Voltage, Constant Power, Fixed Pulse Width
Range of Timer Setting	1st, 2nd, 3rd, UP, WELD, DOWN Total Time 0.5 – 3000 ms (0.5 ms STEP) Pulsation Current Function Featured
Setting Range for Weld Type	Current: 400 – 8200 A (1 A STEP) Voltage: 0.400 – 6.200 V (0.001 V STEP) Power: 200 – 24600 W (1 W STEP)
Current, Voltage, Power, Resistance, Monitoring	Average/Peak/Profile
Trace Monitoring	Current, Voltage, Power, Resistance
Display of Waveform	Current, Voltage, Power, Resistance
Number of Condition	255
Interface	RS232C
Cooling Method	Forced-air
Power Source	AC200 – 240 V 3φ Option : AC380 – 440 V 3φ
Dimension / Weight	W190 x D322 x H275 mm ≈18 kg

## Welding Applications



## ■ Transformer

Items	NT-IN4400		NT-IN4448		NT-IN8400		NT-IN8444	
Rated Capacity	8.8 kVA		23.2 kVA		30 kVA		50.6 kVA	
Rated Primary Voltage	300 V	600 V	300 V	600 V	300 V	600 V	300 V	600 V
No-Load Secondary Voltage	8.4 V (when input power source is 220V.)		12.9 V (when input power source is 220V)		14.1 V (when input power source is 220V)		14.1 V (when input power source is 220V)	
Transformer turns-ratio	37:1	74:1	24:1	48:1	22:1	44:1	22:1	44:1
Input Frequency	2 kHz		2 kHz		2 kHz		2 kHz	
Maximum Welding Current	4000 A		4000 A		8000 A		8000 A	
Duty Cycle (Welding Time)	Air cooling: 5% (50 ms)		Air cooling: 5% Water cooling: 10% (1000 ms)		Air cooling: 5% (50 ms)		Air cooling: 5% Water cooling: 10% (1000 ms)	
Cooling Method	Forced-air		Water/Forced-air		Forced-air		Water/Forced-air	
Dimension / Weight	W150 x D267 x H210 mm ≈12 kg		W170 x D312 x H235 mm ≈18.4 kg		W210 x D342 x H210 mm ≈18.0 kg		W190 x D322 x H275 mm ≈25.6 kg	

### ⚠ CAUTION

BEFORE OPERATION, read the Operation Manual carefully. This unit should be located away from water, moisture, steam, dust and soot to prevent fire, electrical shock, and operational problems.

**Requests for Sample Testing are Welcomed. Please Contact Us.**

\*The appearance and specifications are subject to change without notice.

 **NIPPON AVIONICS CO., LTD.**

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