

NRW-IN8400A

NEW

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

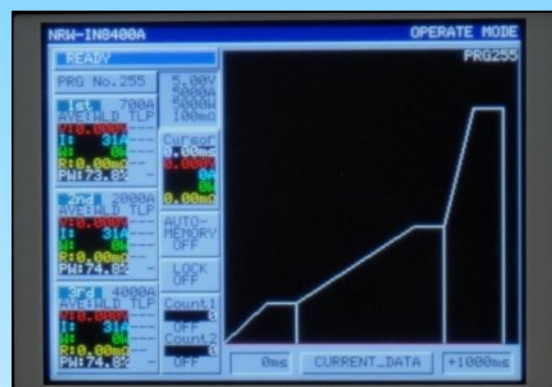
Maximum Current 8000 A High-quality Inverter Type Welding Power Supply

- **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

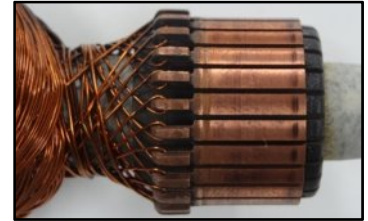
NIPPON AVIONICS CO.,LTD.

NRW-IN8400A Inverter Type Resistance Welder

■ 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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