

# NRW-IN900P

## High Reliability Inverter Type Welding Power Supply



# Large Capacity Welder Suitable for Automotive Electric Parts Welding! [Motor, Harness, etc.] (Max. Output 32000A※1)

## Outstanding Basic Capacity

### ■ Minimized Spatter

- Less Ripple with Maximum 5kHz Frequency

### ■ Stable Welding Finishing Result

- Act Stop in Less than 1ms (with displacement control)



NT-IN32K444

NRW-IN900P

※1 With NT-IN32K444 400V

## Uniformed Welding Quality

### ■ "Pulsation" the Best Function for Fusing

- Firm welding by multiple  
and long welding time capability

### ■ Output Adjustment Function During Welding

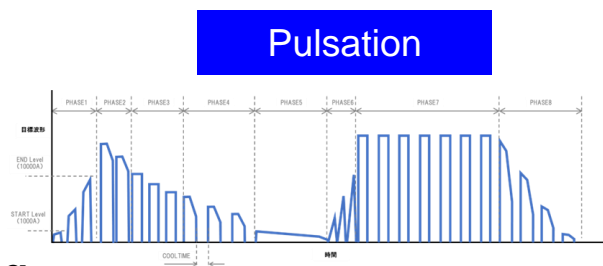
- Good appearance due to adjustment of power  
by external signal

### ■ Analogue Input Controlling Function

- Realtime controlling by PLC input

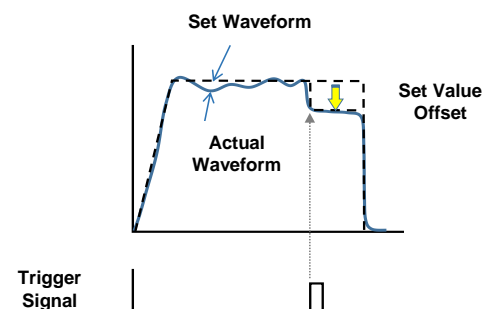
### ■ Primary Input Voltage Monitoring Function

- Stable operation achieved  
by monitoring primary input voltage



Pulsation

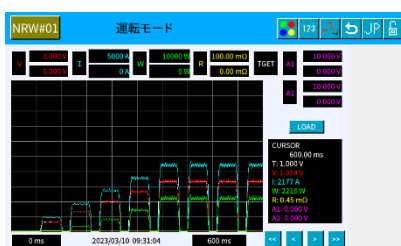
## Output Adjustment Function



## Waveform Monitoring Function

### ■ Able to Indicate Waveform on Program Box

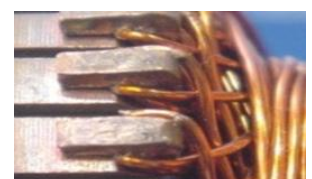
- Helpful to figure out welding condition



Program BOX



Fusing



Fusing for Hook Commutator

NIPPON AVIONICS CO., LTD.

# High Reliability Inverter Type Welding Power Supply

## ■ High Reliability Inverter Type Welding Power Supply: Spec.

Item	NRW-IN900P
Control Frequency	Selectable from 2kHz, 4kHz, 5kHz (Select for each PRG No.)
Control Mode	Primary current peak value control, Primary current average value control, Secondary current average value control, Secondary voltage average value control, Secondary power average value control, Fixed pulse width control.
Maximum Welding Current	900A (Duty Cycle 5%)
Range of Timer Setting	Normal mode : 0.0-5000.0ms (Total of UP TIME, WELD TIME, DOWN TIME, COOL TIME) Pulsation mode : 0.0-24000.0ms (Total of PULSE TIME, COOL TIME)
Number of Conditions	Normal mode : 255 Pulsation mode : 15
Welding Waveform Setting	Normal mode : 3-phase (slope, weld, cool) , free style (Max. 127 step, 8-phase) Pulsation mode : (Max. 120 wave, 10000 pulse, 8-phase) Analog input control mode : (8-phase)
User Interface (Setting Tool)	Program box
Monitoring Function	Average value/peaks value monitor of current, voltage, power resistance respectively. Pulse width, welding time monitor, phase monitor, Source voltage monitor. Waveform display
Cooling Method	Water cooling (Volume of water 3.0 ℓ /min)
Interface	Ethernet
Power Source	220V : 3φ AC200-240V±10% 50/60Hz, 400V : 3φ AC380-480V±10% 50/60Hz
Dimensions (mm)	W250×D651×H428 (Excluding protrusions)
Weight	30.4kg
Welding Transformer	NT-IN32K444

## ■ Transformer for Inverter Type Power Supply: Spec.

Item	NT-IN32K444	
Power Source	220V	400V
Maximum Welding Current	19800A (Duty Cycle 5%)	32000A(Duty Cycle 5%)
Rated Capacity (Duty Cycle 50%)	89 kVA	130 kVA
Primary Input Voltage	300V	600V
Secondary Open Circuit Voltage	14.1V	12.9V
Transformer Turns Ratio	22 : 1	44 : 1
Input Frequency	2kHz/4kHz/5kHz	
Cooling Method	Water Cooling 3.0 ℓ /min	
Dimensions (mm)	W280×D475×H330 (Excluding Protrusions)	
Weight	43.2kg	



### CAUTION

To operate a unit correctly, read the operation manual carefully. The unit should be situated away from the place filled with water, moisture, steam, dust or soot, which may cause a fire, an electric shock, troubles etc.

※AC power cable/ Weld power cable/ Weld sense cable/ Program box cable are not included.

**We Accept Samples to Do Test**



**NIPPON AVIONICS CO.,LTD.**

<https://www.avio.co.jp/english//>

**Sales Department**

**Welding Products Division**

4475, Ikonobe-cho, Yokohama, 224-0053, Japan

TEL +81-45-930-3596

Fax +81-45-930-3597

**E-mail : product-mj@ml.avio.co.jp**

The appearance and specifications are subject to change without notice.

CAT. NO 410-362-E 2304-05-RA