

NRW-IN400PA



Avio

High-reliability inverter-type Welder

For Automation / High Dustproof Specification

High Reliability Welding

- Selectable frequency (2k, 4k, 5kHz)
 - Reduces current ripple by optimization
- 127 steps (Slope, weld, cool) parameter setting
 - Multi-step welding suitable to fusing and resistance heating
- Variation of weld stop: Less than 1ms
 - Reduces error of work displacement
- Enhanced dust-proof structure (Dust, oil mist)
 - Reduces malfunction and defect



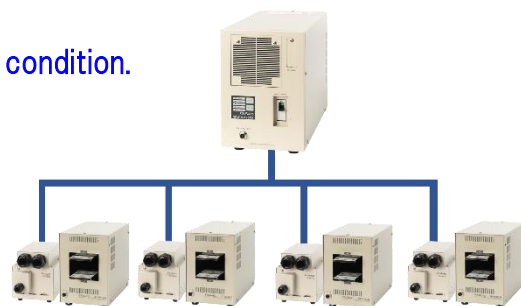
Easy to Use

- Remote control by program box
 - Easy system design
 - Easy parameter change
- Worldwide operational compatibility
 - Multiple power source 3-phase AC200V to 480V
 - Ethernet Connection
- Rich parameter setting
 - 255 conditions
 - Frequency can be selected to each condition.



High Performance

- High-efficient air cooling transformer
 - 5kHz 8000A (Duty cycle 5%) is realized.
- Multi-Transformer System
 - Applicable to be used with maximum 4 trans switchers
- Reliability can be further improved by QC-450 Monitor
 - Welding waveform is graphically displayed
 - ※ Main unit has monitor function of voltage/current
 - Stop, increase, and decrease of weld power control is available from displacement, temperature date, etc, within 2ms (Fastest in the industry)

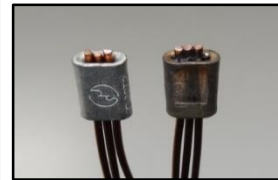
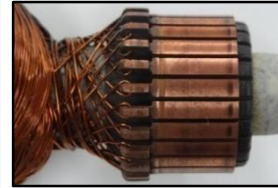


NRW-IN400PA Inverter Type Resistance Welder

■ Inverter Type Welding Controller Specifications

Application Example

Item	NRW-IN400PA
Connecting Transformer	NT-IN8444B、NT-IN4474A
Control Frequency	2000/4000/5000 Hz selectable (selectable for each PRG. No.)
Control Method	Primary peak value current FB/Primary average current FB/ Secondary effective value current FB/Secondary effective value voltage FB/ Secondary effective value power FB/fixed pulse width
Maximum primary output current	400A air cooling 5% (200A air cooling 20%)
Welding Parameters	255 Parameters
Breaker Capacity	75A
User Interface	Program box type
Monitor Function	Average/peak value of current/voltage/power/resistance, Average of pulse width
Multi-stage Welding Function	Up to 127 STEP(slope, weld, cool)(Free Style mode)
Cooling System	Air cooling
Communications, etc.	Ethernet, CF-card slot equipped
Input Power	3-phase AC200 to 480V \pm 10%
Dimension/Weight	W200 \times D501 \times H298 (not including protruding parts) / \approx 19kg



■ Welding Transformer Specifications

Item	NT-IN8444B		NT-IN4474A	
	AC220V	AC400V	AC220V	AC400V
Supply Source Voltage	AC220V	AC400V	AC220V	AC400V
Maximum Output Current	8000A (Duty cycle 5%)		4000A (Duty cycle 5%)	
Rated Capacity (Duty Cycle 50%)	36 kVA	33 kVA	11 kVA	10 kVA
Rated Primary Voltage	300V	600V	300V	600V
No-load Secondary Voltage	14.1V	12.9V	8.4V	7.6V
Transformer Turn Ratio	22:1	44:1	37:1	74:1
Input Frequency	2kHz,4kHz,5kHz		2kHz,4kHz,5kHz	
Cooling Method	Air cooling		Air cooling	
DIMENSIONS/WEIGHT	W200 x D370 x H214mm (projections not included) / \approx 23.4kg		W150 x D337 x H222mm (projections not included) / \approx 14kg	

⚠ 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.

We will be pleased to test your sample, and return it with a report.

※Specifications are subject to change without notice for improvement.

 **NIPPON AVIONICS CO.,LTD.**
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