

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.



Program Box

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)



Multi-Transformer System



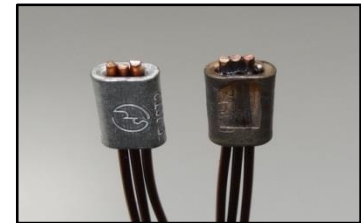
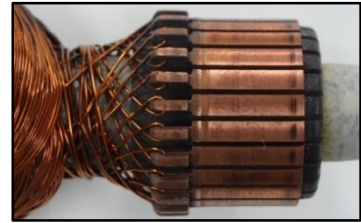
Welding Monitor QC-450

NRW-IN400P Inverter Type Resistance Welder

■ Inverter Type Welding Controller Specifications

Item	Specifications
Control Frequency	2000 / 4000 / 5000Hz Selectable (Selectable on each PRG.No.)
Control Method	Primary peak current FB/Primary average current FB/Secondary effective current FB/Secondary effective power FB/Fixed pulse width FB
Primary Max. Output	400A air cooling 5% (200A air cooling 20%)
Number of Weld	Max. 127 STEP (Slope, Weld, Cool)
Breaker Capacity	75A
Number of Program	255 Conditions
User Interface	Program Box
Monitor Function	Average/peak of current,voltage,power,resistance Average of pulse width
Waveform Display	N/A
Cooling Method	Air cooling
Communication, etc.	Ethernet, CF card
Input Power	3 phase AC200 to 480V ± 10%
Weight	Approx. 18kg
Dimensions (W x D x H)	186 x 490 x 279mm

Application Example



■ Welding Transformer Specifications

Items	New NT-IN8444A	
Rated Capacity	32.6 kVA	
Primary Input Voltage	300 V	600 V
Secondary Open-circuit Voltage	14.1 V (at 220 V)	
Transformer Winding Ratio	22:1	44:1
Input Frequency	5kHz	
Maximum Current	8000 A	
Duty Cycle (Weld time)	Air cooling 5% (1000 ms)	
Cooling Method	Air Cooling	
Dimensions / Weight	W200 x D195 x H300 mm Approx. 22 kg	

⚠ 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.

※Specifications are subject to change without notice for improvement.

■ Options



Program Box
NA-PB100



Trans Switcher
TS-IN044



Welding Monitor
QC-450/Coil

※Power cable/weld power cable / weld sense cable / program controller cable are sold separately (Please specify length.)

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

 **NIPPON AVIONICS CO.,LTD.**

URL <http://www.avio.co.jp/>

Industrial Equipment Sales Division
Welding Products Department

4206 Ikonobe-Cho, Tsuzuki-ku, Yokohamashi
Kanabawa 224-0053, Japan
Phone: +81-45-930-3595
FAX: +81-45-930-3597