

Canroon



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CR1000 Series Intelligent Induction Heating System

Metal smelting, casting, forging, etc.

CR1000 Series Product introduction

CR1000 series intelligent digital induction heating system, with friendly HMI and multiple heating mode, is mainly applied for industries: metal smelting, casting, forging etc.

Canroon offers you more than not just equipments, but a complete solution for your application.



Product Features

- ◆ Advanced phase-shift PWM digital control, IGBT inverter series resonance technology
- ◆ Wide output frequency (1~20kHz), adaptable to various application fields
- ◆ Built-in PID temperature module, capable of precise heating control
- ◆ Optimized human-computer interaction interface for more efficient operation and work
- ◆ Various heating modes such as curve heating, multi-stage heating, and maximum power heating can be selected arbitrarily
- ◆ Comprehensive protection design, offering more than 20 operational control and protection including overcurrent, overvoltage, low voltage, phase loss and short circuit, ensure that the equipment won't be damaged in abnormal conditions like inductor short circuit, workpiece short circuit, power supply instability
- ◆ The power is steplessly adjustable from 1% to 100%. Through stepless power adjustment, any power output within the rated power range can be realized to ensure the needs of different power in the application process.
- ◆ Strong environmental adaptability, large power margin design and advanced coating technique ensure long term working of this equipment even in severe environment like high temperature, oil dirt and dust

Application Environment

| | |
|-----------------------|---|
| Operating Temperature | -10°C~+50°C |
| Relative Humidity | <90%RH, no condensation |
| Altitude | <1000m (reduce frequency when above 1000m; 15% power derating for every 1000m increase in altitude) |
| Storage Temperature | -20°C~+60°C |
| Others | Please set in places without vibrations and shock; Please set in places far away from electromagnetic radiation source; Please set in places without dust pollution and explosion hazard; Do not set in places with direct sunlight, oil mist, steam and salt. |

CR1000 Series Application Case



Specification

| Model | Rated input power(KW) | Rated input current(A) | Cooling water pressure /flow rate | Dimension (mm) | Weight (kG) | Output frequency (KHz) | Rated input voltage and frequency | IP |
|-------------------|-----------------------|------------------------|--|------------------------------|-------------|------------------------|--------------------------------------|------|
| CR1000-040A-14TW7 | 40 | 48-72 | ≥0.4MPa, ≤0.6MPa >16L/min, PH 7.0-9.0 | L:542 W:525.7 H:1250 | 100Kg | 0.5-20Khz | 3 Phase 400V (±20%) 50/60Hz | IP23 |
| CR1000-050A-14TW7 | 50 | 60-90 | | | | | | |
| CR1000-060A-14TW7 | 60 | 72-108 | | | | | | |
| CR1000-080A-14TW7 | 80 | 96-144 | | | | | | |
| CR1000-100A-14TW7 | 100 | 120-180 | | | | | | |
| CR1000-120A-14TW7 | 120 | 144-216 | ≥0.4MPa, ≤0.6MPa >40L/min, PH 7.0-9.0 | D:671.5 W:780 H:1986.5 | 368kg | 0.5-10Khz | | |
| CR1000-160A-24TW2 | 160 | 192-288 | | | | | | |
| CR1000-200A-24TW2 | 200 | 240-360 | | | | | | |
| CR1000-250A-24TW2 | 250 | 300-451 | | | | | | |
| CR1000-300A-24TW2 | 300 | 360-541 | | | | | | |
| CR1000-400A-24TW2 | 400 | 481-721 | | | | | | |

Function Features

| | |
|--------------------------------------|---|
| Overload protection | 1 minute for 120%; instant protection for 150% |
| Start time | < 0.2S |
| Electricity-heat transformation rate | > 95% |
| Effective power | > 85% |
| Service life | > 50000Hrs |
| Protection detection | < 10uS |
| Others | This equipment shouldn't be used in places endangering personal safety or have special safety requirements. |

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