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## Precautions

1. Thank you for purchasing our products, should be read this manual before using the machine, please keep it well, thank you!
2. Please be careful when transporting the machine, avoiding collision.
3. Please construct according to the installation instruction.
4. Please operate step by step according to operation instructions.
5. Do not open the cover, in order to avoid the electrical shock and machine damage.
6. Please keep it clean and tidy.
7. Do not place the machine in the place where is damp, muggy, and direct sunlight.
8. Do not place the machine in the place where is with corrosive liquids, gases or fine dust, conductive fibers or metal crumbs.
9. Do not place the machine in the place where is with vibrations or electromagnetic interference.
10. Avoid long-term make it inverted storage and transportation, do not be affected by strong impact.
11. If there is abnormal phenomena, please refer to "Exception Handling" program.

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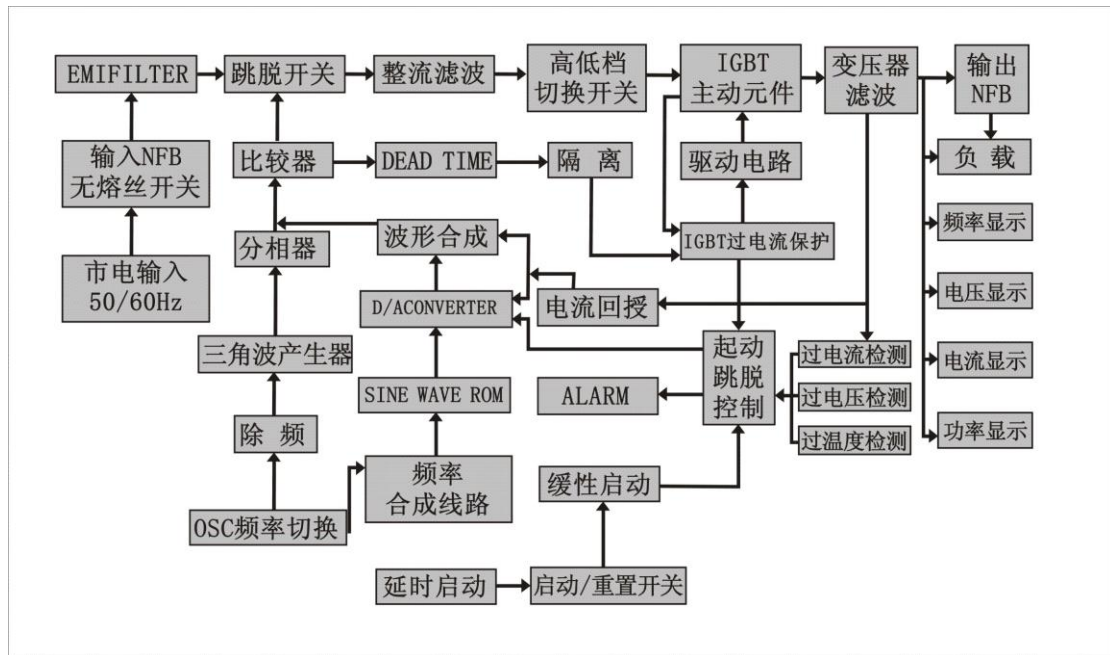
## Stunner Power System Principles

RMC series stunner motor power is with the microprocessor as the core, made of MPWM, designed with active components IGBT module, using a digital division, D / A conversion, instantaneous value feedback, Sinusoidal Pulse Width Modulation technology,etc. Making the unit capacity up to 400KVA, and use isolation transformer output to increase machine stability, which is with strong load adaptability, good output waveform quality, easy operation, small size, light weight and other characteristics, and it is with short circuit, over current, overload, overheating protection function, in order to ensure reliable power supply operation .



RMC-400VAT Stunner Physical map

## RMC series stunner motor power supply diagram



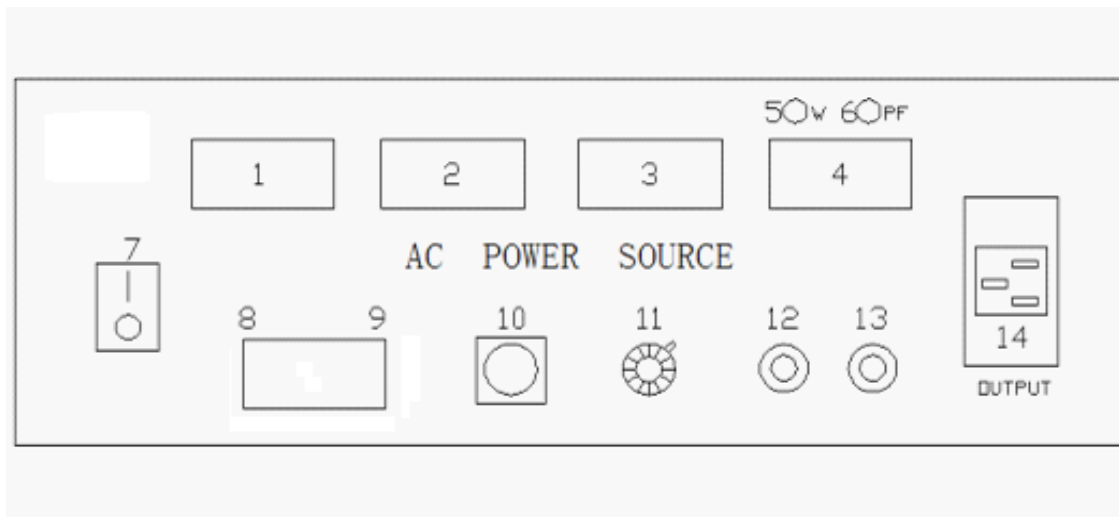
## Power capacity selection method

1. Resistance: Power Capacity = 1.1 × load power

2. Sensibility: Power capacity =  $\frac{\text{Starting current load}}{\text{Rated load current}} \times \text{Load power}$

3. Rectifier: Power capacity =  $\frac{\text{Load current crest factor}}{1.5} \times \text{Load power}$

4. Mixed: Please select according to proportion of different load.



## **stunner power supply panel instructions**

Description is from left to right, top to down, one by one.

1. Output frequency display: digital display output frequency to one after decimal point.
2. Output voltage display: digital display output voltage.
3. Output current display: digital display output current value.
4. Output power and power factor Display: Digital display of output power and power factor values.
5. Output power indicator.
6. Power factor indicator.
7. Power switch.
8. frequency selector switch.
9. Frequency selection switch.
10. Output switch: control voltage output is well or not.
11. Standard voltage output trim button: Ten plus rotary switch lock of fine-tuning, by fine-tuning to get the standard voltage you need.

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12. Reset switch (Reset): Frequency Power Start button; or for any reason causing frequency power trip, when the alarm went off, push the button to restart.
  13. Power and power factor convert button. by this button it can be converted active power and power factor display.
  14. Outlet socket.

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## Operation Description

1. Before use, please check all the control switches, knobs, monitors is complete.
2. Make the power switch to be OFF position.
3. In order to ensure the safety of the device, before connecting the power supply , redefine the input voltage if it is correct.
4. Turn the power switch to "7", after about 3 to 5 seconds, inside the power supply the relay merges, click the Reset button"12", now there is power supply voltage for output.
5. Adjust the output frequency: Press the "8,9" to set the desired frequency
6. Standard voltage adjustment: turn the rotary tuning button "11", can get your desired voltage.
7. Place the load into the output jack "14."
8. Press the output switch "10", the voltage output is on for the back-end load use.

Note: The machine with over current, overload and short circuit protection device, when over current, overload or short circuit protection circuit , it will immediately cut off the output power, sound an alarm buzzer, now please turn off the load, then press reset switch (RESET), after the siren stopped, the output voltage supply is working, check the load conditions, confirming if there is abnormal ,if not ,please make the load switch on again.

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## Electrical device specifications

**Model:**RMC-400WT

**Output Capacity:**400W

**Circuit Type:**(IGBT) PWM pulse width modulation

**Input voltage:**220V $\pm$ 15%

**Input Frequency:** 50Hz/60Hz $\pm$ 5%

**The output voltage:**0~110V Continuously adjustable

**Output frequency:** 400.0—800.0 Hz Continuously adjustable

**Load regulation:**  $\leq$  1%

**Frequency stability:** 0.01%

**Waveform distortion:**  $\leq$  2%

**Efficiency:**  $\geq$  85%

### **Output Meter:**

Frequency meter: 4-digit RMS digital frequency meter, resolution 0.1Hz

Voltmeter: RMS 4-digit digital voltmeter, resolution 0.1V

Ammeter: 4-digit RMS digital ammeter, resolution 1mA

Power Meter: 4-digit RMS digital power meter resolution 0.1W

Power Factor Meter: 4-digit numeric display resolution of 0.001 RMS

**Protector:** Overload, short circuit, over voltage, over current protection and alarm device.

**Dimension (W x H x D) :**440 x 470 x 300( mm )

**Work Environment:**Temperature-10~40℃Relative humidity:0~90%

## Exception handling program

Problems occur	Occurrence of reasons	Processing mode
Q1: Can not start	(1)、 Input power down.	(1)Check the power cables, plugs, sockets if they are loose (2)Check input fuse, if it is intact, if there is a problem, replace it
Q2 : If you have an alarm buzzer, and press "RESET" can not be stopped	(1)Output termination connected with the load equipment Is with shorting phenomenon. (2)RESET button failure. (3)Poor ventilation causes the machine with high temperature.	(1)Check and replace it (2)change RESET button (3) move the machine to a well-ventilated place.
Q3:The output frequency is normal, but the voltmeter and ammeter shows "0", and warning tone sounds.	(1)Over current protection (2)short-circuit protection (3)other reasons	(1)Reduce the load current (2)Check the output if it is short (3) Press Reset to restart
Q4: the fans in side ventilation holes is with rotation abnormalities and have a different sound.	Objects have fallen into the vent fan made it stuck.	Clear objects in the vents