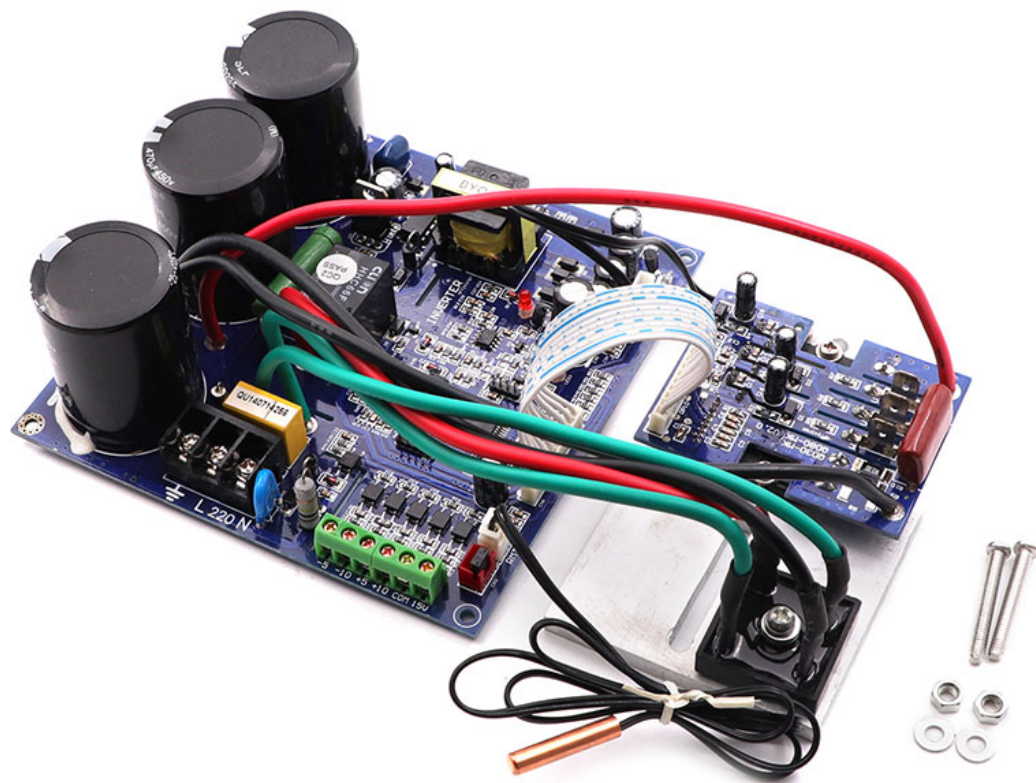




Universal AC Inverter

Model: QD-80

User Manual



LED Fault Code Indicating

Flash once: Module protection, compressor broken or lack phase.

Flash twice: low voltage protection, input voltage under 175V.

Flash three times: overvoltage protection, input voltage above 245V.

Flash four times: over current protection, check the cooling system if there is filth blockage, the heat radiation well or not, if the voltage too low or not, does the volume correct and if volume refrigerant is normal or not.

Flash five times: Module over temperature protection, check the module fin heat and the origin are in good condition, fan speed is normal, and whether it is over current.

Flash six times: Power fall protection, no voltage input.

Flash seven times: Compressor over temperature protection, check if the switch well or not, whether cooling system blocks, if the radiating well, and the quality of refrigerant well.

Flash eight times: Exhaust protection, if the exhaust temperature sensor is abnormal, use the 50K sensor for replacing.

Attention: Alarming when shut down, outage and restart could relieve alarming.

Warranty Issues

1. Seven days for replacement and six months for guaranty repair.
2. No guaranty on the conditions of the board watering, module burned welded, lack of parts, man-made damage.
3. If needing guaranty repair, the board and the box should also be returned. And note the fault on the bottom of the box.

Technical Parameters

Applied range: 1-1.5P

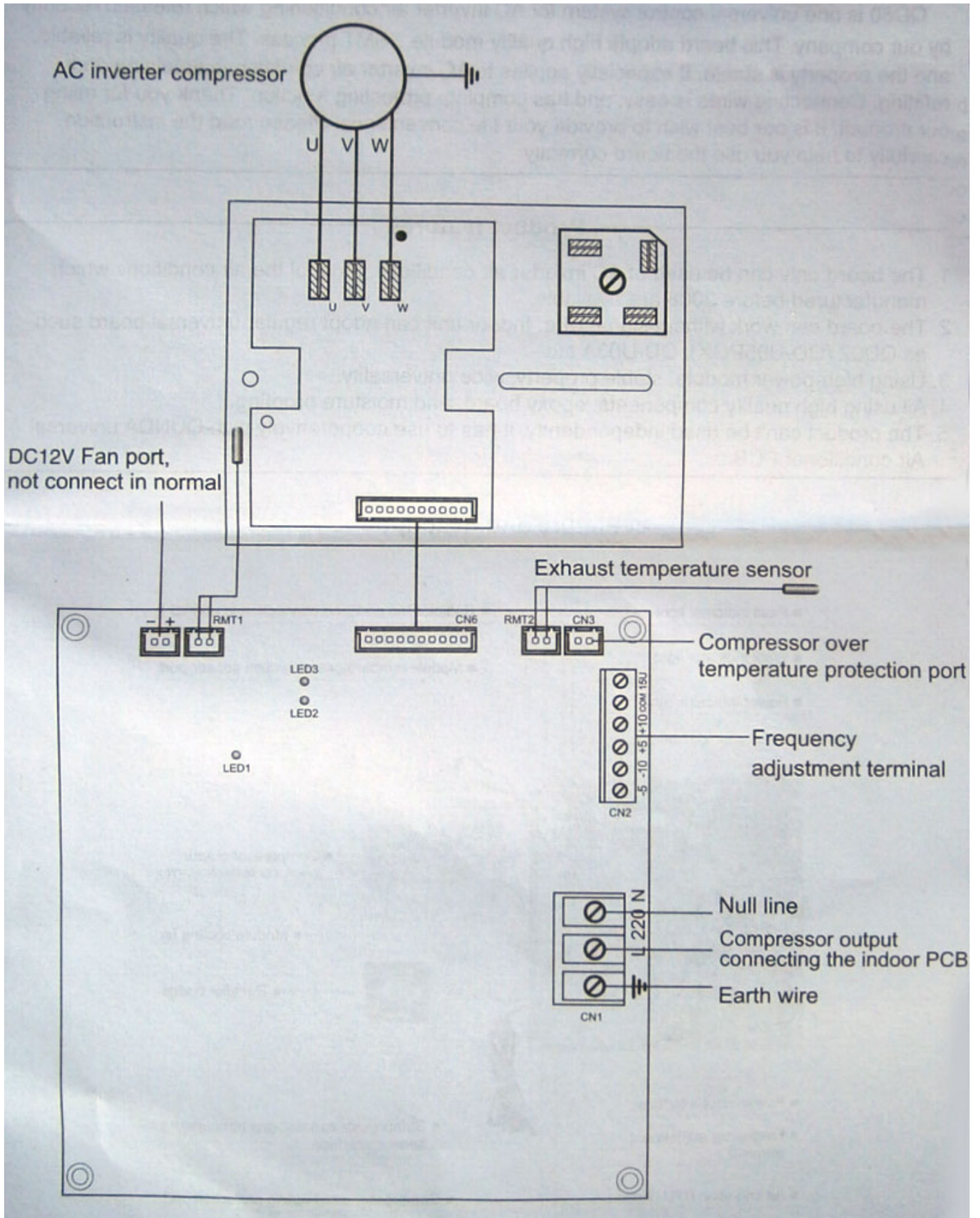
The lowest input voltage: 175V

The highest output frequency converter: 95Hz

The highest input voltage: 245V

The biggest output current: 9A

Wiring Diagram



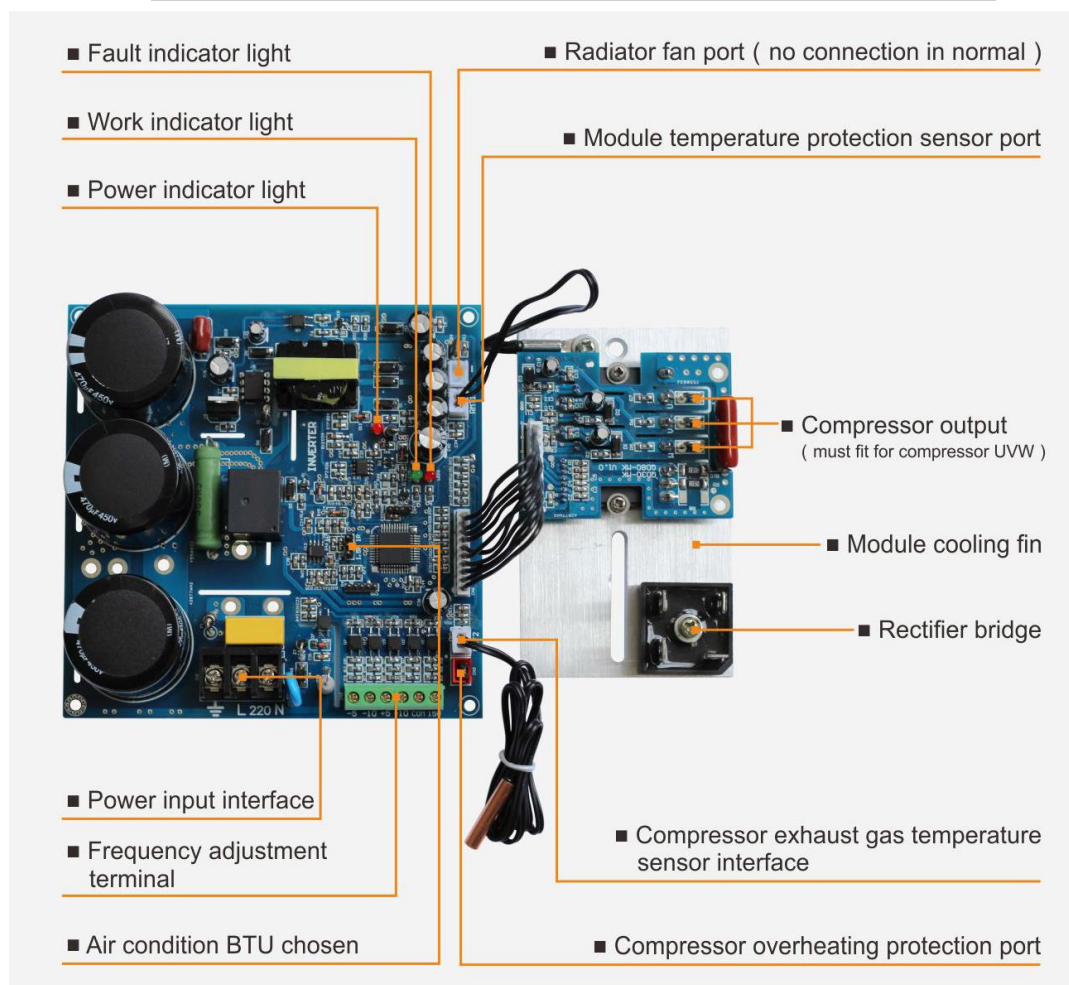
Product Description

QD80 is a universal control system for AC inverter air conditioning. This board adopts high quality module, SMT process. The quality is reliable and the property is stable. It especially applies to AC inverter air condition maintaining and refitting. Connecting wires is easy, and has complete protecting function.

Product Features

1. The board only can be used of AV inverter air condition. Most of the air conditions which are manufactured before 2008 are available.
2. The board can work without signal wire. Indoor unit can adopt regular universal board as QD02 (QD-U05PGX), QD-U03A, etc.
3. Using high-power module, stable property, wide universality.
4. All using high quality components, epoxy board, and moisture proofing.
5. The product can't be used independently. It has to use cooperatively with QUNDA universal air conditioner PCB.

Picture and Description



Notice

1. For ensuring the well heat radiation, stick our cooling fin closely to the original. At the meantime, coat the silicone grease between the two fins.
2. Before your installing, please check if the coil of the compressor is normal or not. Are the resistances of three compressor feet same. If not, don't install it for preventing breakdown the module because the compressor has failure.
3. The board has 2 seconds delay protection function. The compressor auto restarts after 2 seconds since it off.
4. If the air condition adopts expansion valve, change the expansion valve to capillary when installing.
5. If the original unit has electric reactor and filter inductance, there is no need to connect when installing.
6. There is inverter adjusting terminal. When necessary you can adjust according to the refrigeration effect and running current.
7. Specially designed for inverter air condition, can't be sued for other equipment.
8. Non-professionals don't install the PCB.
9. Under the cooling mode, the pressure doesn't decrease and the noise would be louder. Please check whether the three wires of compressor are connected wrong or not or lose the phase.
10. The biggest running current of compressor can't be beyond 110% of rated current.
11. Ensure the wires of compressor connecting well. Or it will burn the module and the compressor.
12. There is still high voltage in the board after the board outage for 5 minutes. Be careful when installing.
13. Before installing, please ensure the air condition is alternating current inverter (with Z in the model name of air conditioner is direct current inverter).

PCB Interface Instruction

LED1: Power light

LED2: Running light. The light will be on when the compressor is working.

LED3: Fault light. It will flash according to the fault, and shining with different times.

CN1: AC 220V input power interface, can be connected to the output of indoor unit board compressor.

CN2: Frequency adjustment terminal, in total there is four gears, they are +5Hz, +10Hz, -5Hz, -10Hz, connect the terminal with compressor when necessary, the frequency of the PCB would increase or decrease according to the standard frequency, +15V cannot connect with compressor.

CN3: The compressor overheating protection switch, shut down protection when switch off.

CN4: Factory testing port, please don't do any connection.

CN5: Factory testing port, please don't do any connection.

CN7: Radiator fan port, can connect 12V DC fan, it could not be connected if not necessary when normal using.

RMT1: Module temperature sensor port. Shut down for protection when the temperature is over.

RMT2: Compressor exhaust temperature sensor port, closing down for protection when the temperature is over 105°C.

UVW: Compressor output, connect the three wires should be according to the origin. The origin connects U then connects U. The origin connects V then connect V. The origin connects W then connect W. If connecting wrong, the motor rotor of compressor would get damage valve block.