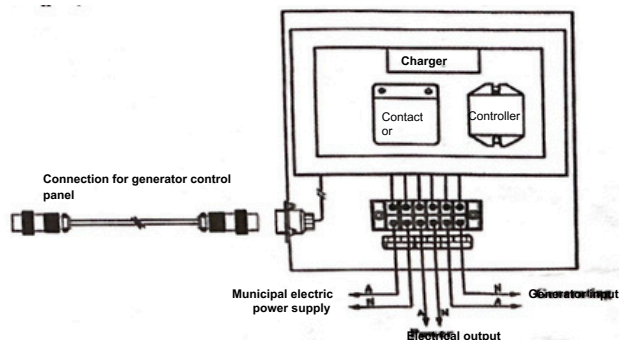
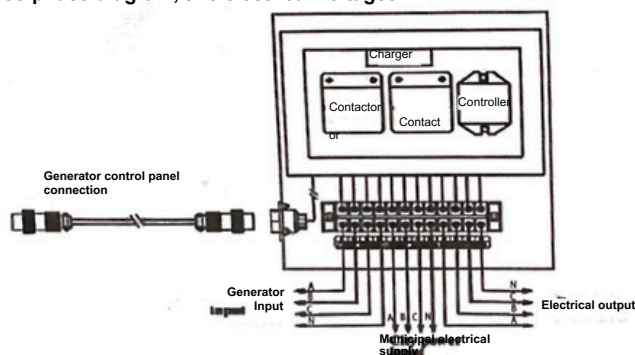


## 6. Wiring diagram

### 6-1 Single-phase diagram, one electrical voltage:



### 6-2 Three-phase diagram, two electrical voltages:



#### Note

- 1The power of the ATS must be greater than the power of the load.
- 2It is necessary to connect an additional AIR INSULATOR to protect the ATS system when you connect the mains power cable to the ATS cabinet.
- 3The electric door lock must be switched to the "OFF" position. (For diesel generator only, please switch to the "ON" position for gasoline generator)
- 4Please run the generator successfully in the "OFF" position first, then you can use the "AUTO" for automatic operation.
- 5When using ATS system, please switch the air circuit breaker switch to "ON" position.
- 6Only a qualified electrician is allowed to open the cabinet for inspection and repair, there is a risk of high voltage electric shock.

## ATSENCLOSURESYSTEM USER MANUAL

### 1. PRODUCT INSTRUCTIONS

The ATS system is designed to respond to a loss of mains electrical power and to start the generator for emergency electrical power. When the mains power is switched off or fails, the generator starts in 2-6 seconds and then supplies power to the load. When the main power is turned back on or restored, the ATS automatically switches the switch to the main power and then stops the generator within 2-6 seconds.

- 1.1This system uses the SCM core and digital technology to control and manage the automatically operating system.
- 1.2Easy installation and operation
- 1.3Automatic operation without human control. When power transmission is interrupted, the system keeps a record of errors and alerts the technician of the need to check and re-set. Don't worry about the timing of mains power and generator power.
- 1.4There is a battery charger inside the cabinet that automatically charges the generator battery.

### 2. OPERATING AND SERVICE STEPS

Using the cable, connect the ATS box to the generator control panel and switch the electric door lock to the "OFF" position. (For diesel generator only, please switch to the "ON" position for gasoline generator)

#### 2.1Automatic setting

Press the **AUTO** button, the **AUTO** indicator light will come on, theATS systemis now workingautomatically.

#### 2.2The ATS system is working

When the ATS system is in automatic operation mode and the mains power supply fails, the ATS system will automatically open the air damper control, start the generator in 2 seconds, wait for the generator to run for 5 seconds, and then the system will switch the electrical load to the generator power.

#### 2.3Starting the ATS 3x

If the generator fails to start properly, the ATS will attempt to start the generator **repeatedly** a total of three times as shown below.  
Mains power off→ generator start 3 seconds first time→ unsuccessful start and wait 5 seconds → generator start 4 seconds second time → unsuccessful start and wait 5 seconds → generator start 5 seconds third time

**NOTE: If the generator fails to start 3 times in a row, the "FAULT" light will come on.**

#### 2.4Stopping the generator

When the mains power is turned back on, the ATS system will transfer (switch) the load to the mains electrical supply and the generator will stop after 5 seconds of no load operation.

### 2.5 Manual start

If you do not need the ATS to operate automatically, switch the switch to the "MANUAL" position.

### 2.6 Automatic air damper control

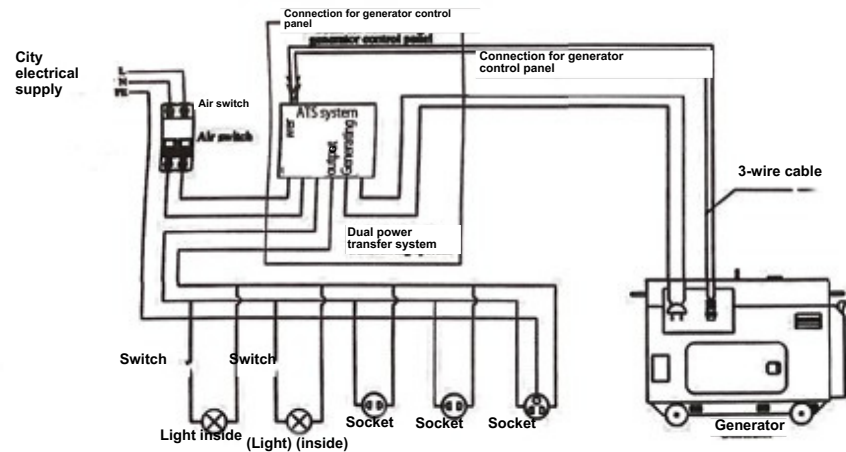
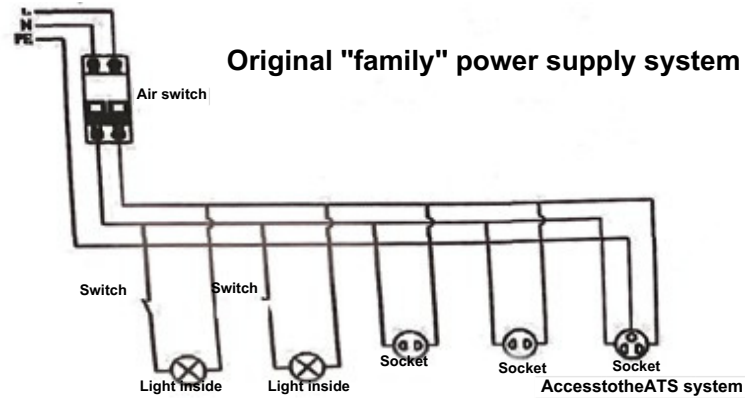
If the generator has an air damper control, the ATS will automatically open the air damper when the generator is started, and close the air damper when the generator is successfully started.

### 3. Battery maintenance

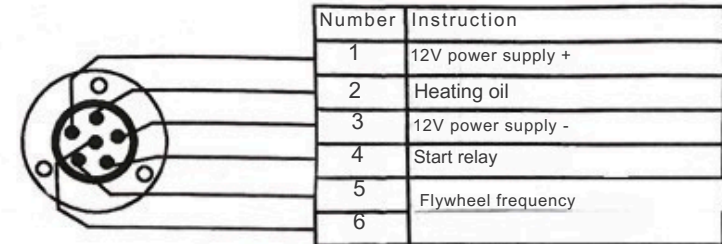
The ATS system charges the battery automatically, the charging current is 2A.

### 4. Diagram of ATS access to the power system

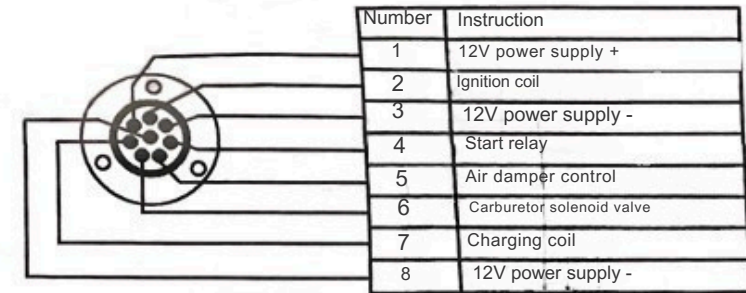
City electrical supply



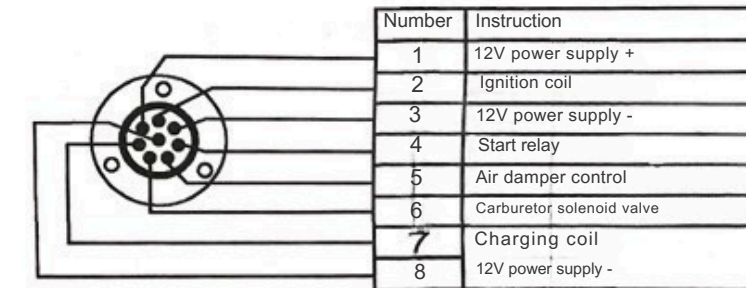
### 5. Circular connector connection



(3KW-6KW) Diesel six-core cable



(3KW-6KW) Gasoline eight-wire cable



(10KW) Gasoline eight-wire cable