# **BOXED ATS SYSTEM USER MANUAL**



#### 1. PRODUCT INSTRUCTION

ATS system is designed for mains power supply off and starts generator for emergency power supply on.

When mains power supply off,the generator will star in 2-6 seconds,and then supplys power to load. When mains power supply on,the ATS system will automatically transfer switch to main power supply, and then stop the generator in 2-6 seconds.

- 1.1 This system use SCM core and digital technics to control and manager automatic working system.
  - 1.2 Easy installation and operation
- 1.3 Automatic working without people inspection. When transfer broken the system will remain error record, and indicate engineer to inspect and re-setup. Don't worry about mains power supply and generator power supply action same time.
  - 1.4 There is a battery charger inside, and charge the battery of generator aitomatically.

#### 2. OPERATION STEPS

Use the cable to connect the ATS box to the generator control panel,and switch "AUTO" position.

#### 2.1 Automatic postion setup

Press **AUTO** button, the indicator light **AUTO** will be on, ATS system works automaticly.

#### 2.2 ATS system working

When the ATS system works automatically, if mains power supply off,ATS system will automatically open air damper control and start the generator in 2 seconds,and wait the generator run 5 seconds,system will switch load to generator power supply.

#### 2.3 ATS system start 3 times

When generator can not start well,ATS system will start generator circularly 3 times as below Mains power supply off→generator start 3 seconds first time→start unsuccessfully and wait 5 seconds→generator start 4 seconds second time→start unsuccessfully and wait 5

seconds→generator start 5 seconds third time

NOTICE:When generator can not start successfully in 3 times,the indicator light "FAULT" will be on.

#### 2.4 Generator stop

When mains power supply on again,ATS system will transfer load to mains power supply,and generator will stop after running 5 seconds without load.

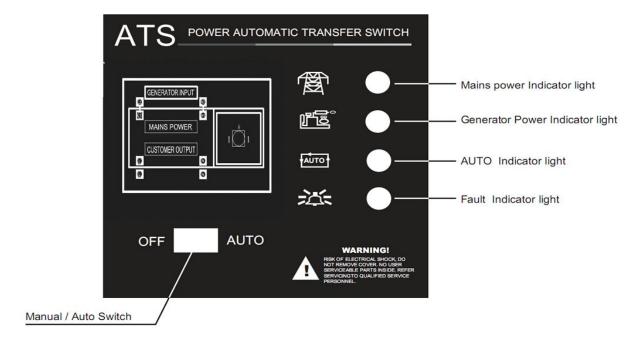
#### 2.5 Manual start

If you don't need ATS system to work automatically, please put the switch to "MANUAL" position.

#### 2.6 Automatic air damper control

If generator have air damper control, when generator start, ATS system will automatically open it and close it after generator start successfully.

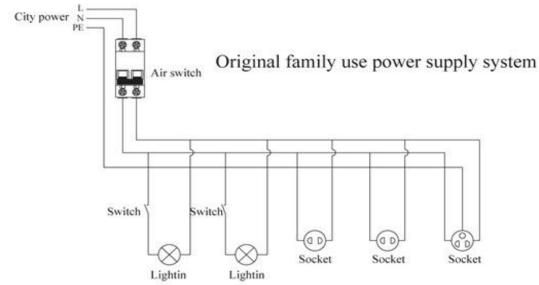
### 3. OPERATION INSTUCTION



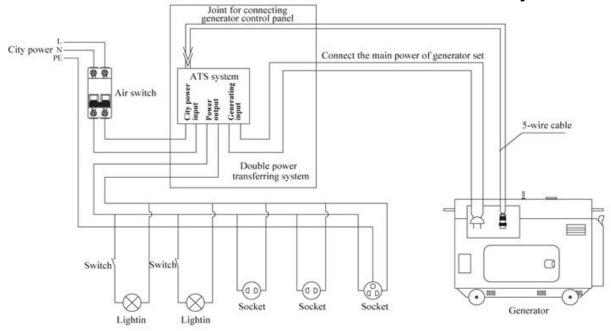
# 4. Battery maintenance

ATS system will charge the battery automatically, the charge current is 1A.

# 5. ATS access to power system diagram

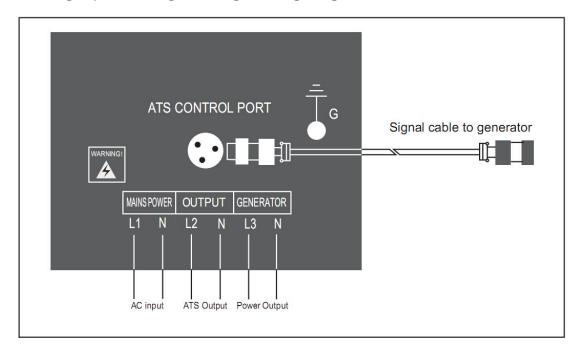


# **Access ATS system**

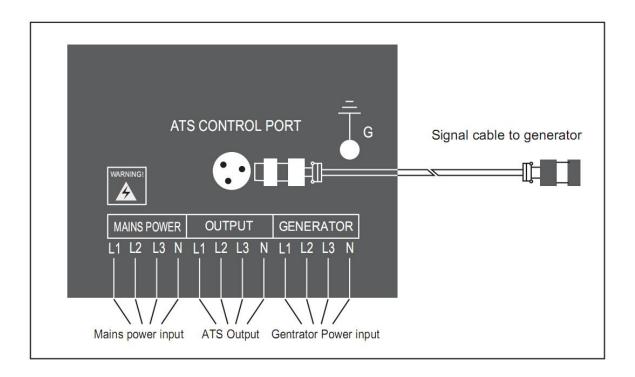


# 6.Wiring diagram

6-1 Single-phase.single voltage wiring diagram:



## 6-2 Three-phase. Double voltage wiring diagram:



## 7. Notice

- 1 ATS power must be bigger than load power.
- 2 Must add a AIR-BREAKER to protect ATS system, when you connect mains power cable to ATS box.
- 3 Please run generator successfully at "OFF" position first, then you can use "AUTO" for working automatically.
  - 4 Please turn air-breaker switch to "ON" position when use ATS system.
  - 5 Only electrician can open box for inspection and repair, there is high voltage danger,