



ENERGÍA DE LA UTILIDAD



GENERADOR



CARGA



BATERÍA



FALLO

⚠ WARNING

RIESGO DE DESCARGA ELÉCTRICA, NO RETIRE LA TAPA NO HAY PIEZAS QUE PUEDAN PEGAR EL USUARIO EN EL INTERIOR. CONSULTE EL SERVICIO AL PERSONAL DE SERVICIO CALIFICADO.



AUTO ←



MANUAL



INTERRUPTOR DE TRANSFERENCIA AUTOMÁTICO

Operating Manual of box-type external-hanging ATS

Directory

1. Function description	3
2. Operation procedure	3
3. Battery maintenance	4
4. Technical parameter	5
5. Points to note	6
6. Appendix	7

1 . Function description:

The ATS fully automatic emergency electric generator is designed for emergency security power supply in the event of a sudden power failure. When the power is cut off suddenly, the unit can start up successfully within 2-6S and supply power to the user's load by itself. When the power supply is restored, the unit can switch the user's load to the external power grid by itself and stop the unit automatically.

This unit adopts single-chip microcomputer as the control core, and uses the digital technology to carry on the overall management and monitoring of the unit status, thus realizing the automation work of the whole process of the unit. The unit is mainly used for radar stations, outposts, barracks, Posts and telecommunications, finance, hospitals and users who need power supply quickly after power failure.

2. operation procedure:

Preparation for use: CONNECT THE ATS to the panel with a cable connector, and switch the panel to the OFF position (Important: Applies to most cases. Please refer to the actual device panel for details.) .

(1)Automaticsetting

Turn the switch to "AUTO" and the panel "AUTO" lights up when the "ATS " operating system is in an AUTO-detect state.

(2)Running of ATS

When the ATS system enters the automatic state, if the city power is suspended due to an accident, the ATS delay of 5 seconds after the automatic opening of the damper controller, in 2 seconds to start the generator motor, the generator normally started 5 seconds after, the system automatically switches the load to the generator power supply.

(3)ATS Starts Nine Times

The ATS Control System will perform three cycle start-up when the generator has poor start-up performance due to low temperature or other reasons,

The activation procedure is as follows:

Market Power Failure → generator first start time is 3 seconds → start unsuccessful → interval 5 seconds → second start time is 4 seconds → start unsuccessful interval 5 seconds → third start time is 5 seconds... the total of 9 starts left is 5 seconds and start time is 5 seconds (If nine times the generator fails to start properly, the alarm light "FAILURE" comes on.)

(4) Generator shutdown

If the unit is running, if the city power is restored, and the city power supply is normal for 10 seconds, the ATS control system will automatically switch the load to the city power, the generator in the state of no-load operation after 4 minutes shutdown.

(5) ATS automatic throttle control

If the unit is equipped with air door device, ATS automatically opens the Air Door Controller when the unit starts up, and automatically closes the air door device after successful start up, refer to the documents of the air door step motor air door control module.

3. Battery maintenance:

The box is equipped with a constant current and floating charging device for the battery. Under the condition of market electricity (voltage 90 ~ 250V) , the internal charging mechanism of the unit can charge the battery with constant current (charging current 2A) . When the battery is fully charged, the charger changes from constant current charging to floating charging to compensate the loss of electric energy inside the battery and ensure that the battery has enough electric energy to start the unit at any time.

4. Technical parameter:

Operating Voltage	DC 8~15V
Rated current of contactor	Single Phase: 220V/25A (5KW unit) Single Phase:220V/50A(10KW unit)
Internal Charge	INPUT VOLTAGE: AC 90 ~ 250V Output Voltage: DC 14.4 V (± 2%) CHARGING CURRENT: 850 MA
Contour dimension(mm)	315×250×135
Cable connector	7-core chrome plating
Length of external connection line	1.5m
Operating temperature	(-25~80)°C
Storage conditions	(-15~60)°C
Internal diameter	2.5mm ² (Single-phase and three-phase 5KW units) 4mm ² (Three-phase 10KW unit) 6mm ² (Single-phase 10KW unit)

5 . points to note

- 1 、 Select the ATS, please select the matching power.
- 2 、 Do not connect the ATS output directly to the mains.
- 3 、 City power access ATS, must be through the air protection switch, has ensured safety.
- 4 、 Use the automatic ATS when the switch is turned on.
- 5 、 Upon restoration of normal city power supply, the ATS will shut down after 4 minutes of operation
- 6 、 Pay attention to the generator electrical lock switch to open the use of the OFF state (only for diesel, oil units, gasoline units, please switch to lock ON position) .
- 7 、 note to the generator panel air switch to the "ON" position.
- 8 、 The equipment must be kept in a well ventilated, dry place, away from high temperature, high humidity or easily shaken.
- 9 、 ATS Internal High Voltage, failure must be checked by qualified electrical maintenance personnel, ordinary users please do not open the chassis, in order to prevent electric shock

6. Appendix





9

10

11

-
1. House net indicator
 2. Generator indicator
 3. Load indicator
 4. Battery indicator
 5. Failure indicator
 6. Key
 7. Emergency stop
 8. Auto mode button
 9. House net input
 10. Load
 11. Generator input