

▶ Summary

AVR series automatic AC voltage stabilizer is intelligent type micro-computer AC automatic production. It adopts the 8-bit CPU, and has functions of delay output, undervoltage indicator, overload protection, overvoltage protection. When machine is overvoltage or undervoltage, LED of panel would indicate "Ho" or "Lo". When operate unnormally, LED would show "CHo" and flash. When operating normally, LED indicates output voltage value. This production conforms to standard of SB/T10266.



▶ Characteristic

- 2.1 this production cancels the sliding contact system which uses servomotor to drive the carbon and avoid the disadvantage of traditional production, like low stability, plants of worn-part, large self-consumption, high fault rate.
- 2.2 wide output voltage operate range, good load performance
- 2.3 overvoltage and overcurrent protection
- 2.4 good design, desktop structure, LED display, easy-connection, soft-color.

▶ Normal operate condition and installation condition

- Ambient temperature: -15C to +45C
- Relative temperature: lower than 90%(25C)
- Altitude: lower than 2500m
- Environment: indoor without corrosive gas and flammable gas, continuous operation.

▶ Main technical parameter

4.1 main technical parameter see Table1

Table1

specification	0.5KVA, 1KVA, 1.5KVA, 2KVA, 3KVA, 5KVA, 8KVA, 10KVA
input voltage range	AC(140~260)V
output voltage	AC220V
stabilization accuracy	220V±8%
frequency	50Hz±1%
delay time	long delay 120s, short delay 6s.
input overvoltage protection value	(246±4) V/delay 5s
input undervoltage protection value	(184±4) V/delay 5s
load power factor	cosΦ0.9
adjustable time	input voltage range within 10% in 1s
waveform distortion	without additional waveform distortion
dielectric strength	1500V/1min
insulation level	≥5MΩ
insulation resistance	E type

4.2 output capacity curve:see Fig1

output capacity V_i -input voltage P2-input capacity P-rated output capacity

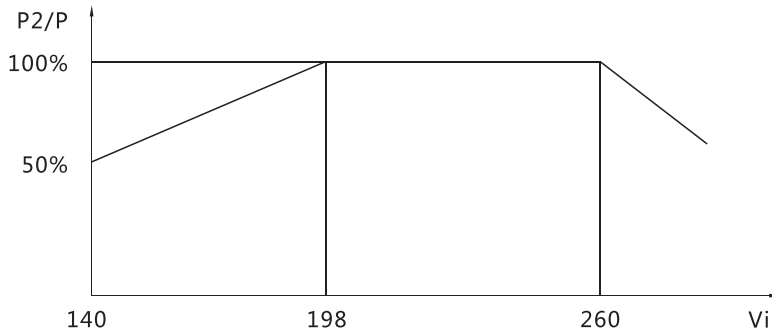
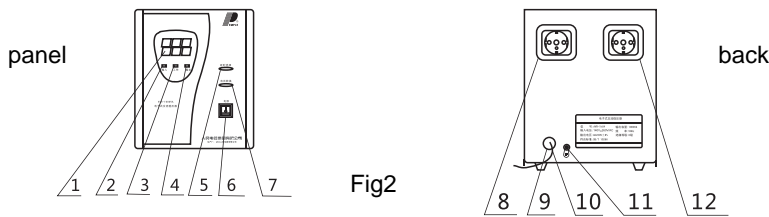


Fig1

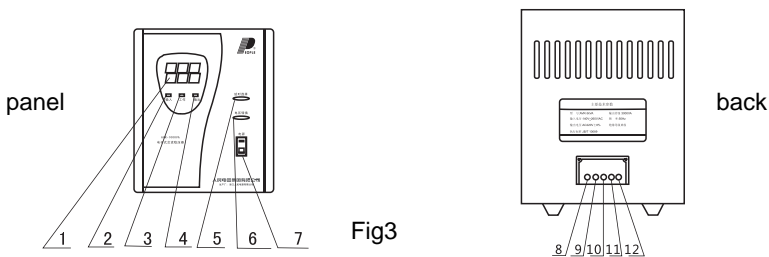
▶ Appearance and installation connection diagram

5.1 SVC-0.5KVA~1.5KVA automatic AVR AC stabilizer



- 1.digital tube 2.input indicator 3.operate indicator 4.output indicator 5.delay indicator
- 6.rocker switch 7.voltage transfer button 8.output socket((220V) 9.wire protector
- 10.input power line 11.grounding bolt 12.output socket(220)

5.2 SVC-2KVA~10KVA automatic AVR AC stabilizer



- 1.digital tube 2.input indicator 3.operate indicator 4.output indicator 5.delay select button
- 6.voltage transfer button 7.power supply switch 8.input phase line 9.input neutral-line
- 10.ground 11.output phase 12.output neutral-line

5.3 Installation connection

5.3.1 location should near by the meter,input port without any AC contactor or relay, this place must has the conditions of dry,ventilation,without corrosive gas.

5.3.20 5KVA~1.5KVA production adopts power supply input,socket output. 2KVA~10KVA production adopts terminals method input,output.

5.3.3 settle the stabilizer,and connects the wires according to Fig3.

▶ Instruction

6.1 After connecting to power supply, operate indicator is on and flashing, after time delay, indicator stops flashing, operate and output indicator is on at same time, then it is connecting to output, has stable output voltage.

6.2 When overvoltage is happening, operate indicator is on, stabilizer will cut output voltage automatically, and LED displays "H", output indicator is flashing means that output power net voltage is higher than overvoltage protect value, output cut off. Unit the power net recovers to the regular range, stabilizer would operate again.

6.3 after the computer turn ons, stabilizer is at delay state, if user needs short delay output, please choose delay switch, make the delay time 6s, (note: if load has refrigeration compressor, refrigerator, air-conditioner, etc, which can not allowed to continuous breaking and making, please using delay 120s to make sure those loads can be operating normally.) pressing 120s, pops out 6s.

6.4 after delay into normal stable state, please do not press delay select button, if not, it would make machine misaction, display "CH" when it is in protect state.

6.5 voltage measure switch is at normal state position, LED screen displays output voltage, press this switch display is power input voltage.

6.6 0.5KVA~1.5KVA production overload or short-circuit protection is provided by overload protection, 2KVA~10KVA productions' overload or short-circuit protection is provided by circuit breaker. After overload protector or circuit breaker make the action, please reduce load or cut off the shorten circuit, and waiting few minutes, make the overload protector or circuit closed again.

6.6 stabilizer output power wire cross section and load is fitted.

6.7.1 output power of stabilizer for resistive load is 2 times of load power. inductive load stabilizer output power is 3~5 times of load power.

6.7.2 stabilizer input, output wire, copper wire safe flow should not exceed 5A/mm², aluminium wire cut half to count. see Table3.

Table3

capacityKVA	2	3	5	8	10
cross section mm ²	1.5	2.5	4	6	10

▶ Appearance

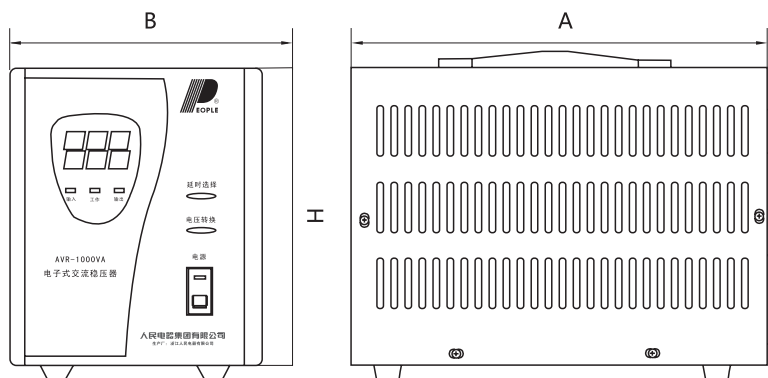




Table4

specification	output power(kW)	shape AxBxH(mm)
AVR-0.5KVA	0.5KVA	255x145x190
AVR-1KVA	1KVA	255x145x190
AVR-1.5KVA	1.5KVA	254x145x190
AVR-2KVA	2KVA	285x195x225
AVR-3KVA	3KVA	285x195x225
AVR-5KVA	5KVA	345x225x250
AVR-8KVA	8KVA	450x225x255
AVR-10KVA	10KVA	450x225x255

▶ Notice

- 8.1 grounding terminal must be bolted into ground to ensure safety.
- 8.2 forbid to open box and taking rapair or adjustment without cutting power.
- 8.3 stabilizer must be settled at the location which is dry,without corrosive gas and oil.
- 8.4 stabilizer would prduce the heat in the operate process.please do not cover it for keeping normal heat radiation.
- 8.5 after operating one yeaer,please clean the dust of the stabilizer by professional staff.
- 8.6 Inductive or capacity load power must lower than stabilizer rated capacity,and if input voltage is lower,stabilizer allowed loading is lower.
- 8.7 forbid AC contactor or relay installing at front of input port of mechine,if not, it may cause operating fault.