

Automatic Voltage Regulator

AVR200 Series



- **Voltage Regulating Technology**
- **Wide input voltage range**
- **Wide load power factor range**
- **Continuous operation and short time overload rated**
- **Long life roller type carbon brush**
- **Negligible wave distortion**
- **Over/undervoltage and overcurrent protection circuits with shutdown delays**

Ascent's AVR200 Series Automatic Voltage Regulator provides a stable output voltage supply for electronic equipment and is widely used in telecom base stations, CNC machines, computerized topography, printing machines, production lines, and other voltage stabilization applications.

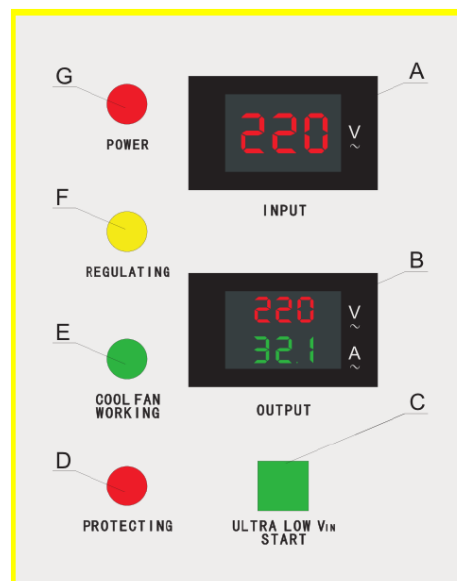
AVR200 is designed and manufactured utilizing advanced compensation technology. It offers high capacity and high efficiency. They are easy to operate, require simple maintenance, and offer high reliability. The AVR200 can match any load type, especially unmanned operation of telecommunication equipment in base stations, and data centers.

For up to 100 kVA capacity AVR Series voltage regulator employs a roller type brush and offer multiple outputs. AVR200 voltage stabilizers play an important role when guaranteeing a stable voltage to those loads that are very sensitive to those fluctuations.

Key Features

- Wide input voltage range
- Wide load power factor range (resistive, capacitive, inductive)
- Continuous operation and short time overload rated
- Long life roller type carbon brush
- Negligible wave distortion to output
- Self-coupling transformer can be connected at the input or at the output of the DBW
- Protection circuit (over/undervoltage and overcurrent with shutdown delays)
- Vacuum pressure impregnation process for F or H class insulation of the magnetic components
- Surge protection option is available on request
- Multiple outputs or other output voltages are available on request

Interface Diagram



A INPUT VOLTAGE (PV1)

B OUTPUT VOLTAGE AND CURRENT METER (PV2)

E COOL FAN WORKING

F REGULATING

C ULTRA LOW V_{IN} START

G POWER

D PROTECTING

Specifications

Item	Description
Electrical Specifications	
Input Voltage Range	150 V AC to 250 V AC, 50 Hz
Input Frequency Range	50 Hz \pm 5 Hz
Nominal Output Voltage	Single phase 220 V AC \pm 3 V AC, 50 Hz
Over Voltage Shutdown	Output voltage > (+10%), 4s to 7s delay before cut off Automatic restart when mains voltage decreases
Under Voltage Shutdown	Output voltage < (-20%), 4s to 7s delay before cut off Automatic restart when mains voltage increases
Start Delay	The AVR will auto switch ON the output when the unit power is ON and delayed for 5 s to 7 s
Display	Normal indication: output voltage and current Fault protected indication: Fault code: -oV (over voltage), -uV (under voltage), -oL (over current)
Overload protection	Automatic circuit breaker rated at 120% Overload capability for heavy start load.
Manual By-pass	Rated for 120% nominal current
Efficiency	>98 %
General Characteristics	
Environmental Protection Class	IP20
Electrical Safety	CE equivalent
Operating Temperature	-20 °C to +45 °C
Relative Humidity	<90 %

Ordering Information

Model	Description
AVR200-10K	AVR200 Automatic Voltage Regulator, 10KVA
AVR200-25K	AVR200 Automatic Voltage Regulator, 25KVA

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