

AR-33 series Voltage Regulator

Alphapower

The AR-XXK automatic voltage regulator features **CPU control**, LCD display, IGBT inverter design, has a **wide input voltage window** and **excellent voltage regulation** with a margin of 1%. It is compatible with linear and non-linear loads, and includes **overload, high voltage and low voltage protection**.

The AR series also has a **built-in surge suppressor** (MOV), EMI & LC filters which provide **pure and clean output**.

The AR-XXK33 is a 3-phase voltage regulator with **input phase detector protection, high efficiency** and **Sine wave pulse width modulation**.

Some key features include:

- Wide input voltage window ($\pm 25\%$)
- Excellent voltage regulation ($\pm 1\%$)
- Compatible with linear & non-linear loads
- Overload, low voltage, & high voltage protection
- Compact size, lightweight & low noise
- High reliability
- High efficiency
- High performance
- CPU operation
- Sine wave PWM, IGBT inverter design
- Three phase compatible



Product Specifications

	Model	AR-15K33	AR-30K33
	Power Rating (PF 0.7)	10.5kW	21kW
AC Input	Voltage	220V / 380V, system 3-4W	
	Range	25%	
	Frequency	50/60Hz ± 10% (Auto Sensing)	
AC Output	Voltage	220V / 380V, system 3-4W	
	Voltage Regulation	Typical ± 1%	
	Frequency	50/60Hz	
	THD	< 3% at linear load	
	Power Factor	± 0.7	
	Efficiency	> 95%	
AVR	Operation	SPWM	
	Component	IGBT & MOSFET	
	Operation Frequency	20kHz	
Protection	Output Overload	Buzzer alarm (option: output off)	
	Output Over/under Voltage	Option	
	Surge Protection	Varistor	
	Noise Protection	EMI OR LC filter	
Physical & Environment	LCD Indicator	Indicate: line, bypass, inv, fault, load capacity, I/P voltage, O/P voltage, I/P frequency, O/P frequency, internal temperature and O/P current	
	Manual Bypass Switch	Optional	
	Dimensions	258 x 562 x 679 mm	
	W x D x H	10.1" x 22.1" x 26.7"	
	Net Weight Kg (lbs.)	69.5 (152.9)	96 (211.2)
	Ambient Operation	0 – 40°C (32 – 104°F)	
	Humidity	0 – 95% non-condensing	