Alpha
Power Systems

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AR-LCD-XXK – Full Automatic & Electronic Voltage Regulator

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

Features

- Wide input voltage window (± 25%)
- Excellent voltage regulation (± 1%)
- Compatible with linear and non-linear loads
- Overload, low voltage & high voltage protection
- Compact size, lightweight & low noise
- Linear voltage regulator provides high reliability
- Over 95% efficiency
- Innovative design with high performance
- CPU operation ensures reliability & constant protection
- Built-in surge suppressor (MOV), EMI and LC filters provide put output
- Sine wave Pulse Width Modulation, IGBT inverter design

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Specifications

Model		AR-10K-LCD		AR-15K-LCD		AR-20K-LCD	
		110V	230V	110V	230V	110V	230V
Power Rating (PF 0.7)		10kVA		15kVA		20kVA	
		7kW		10.5kW		14kW	
AC Input	Voltage	110V/220V, system 1-2W					
	Range	110V ± 15% / 220V ± 25%					
	Frequency	50/60Hz ± 10% (Auto Sensing)					
AC Output	Voltage	110V / 220V, system 1-2W					
	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					
	Surge Protection	Varistor					
	Noise Protection	EMI OR LC filer					

Physical	**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			
	Bypass Switch	Optional			
	Dimensions **W x D x H**	258 x 392 x 334 mm 10.1" x 15.4" x 13.1"	258 x 531 x 546 mm 10.2" x 20.9" x 21.5"		
	Net Weight Kg (lbs.)	28.5 (62.07)	30 (66)	59 (130)	64 (140.8)
Environment	**Ambient Operation**	$0 - 40^0C\ (32 - 104^0F)$			
	Humidity	$0 - 95\%$ non-condensing			

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