

Digital Intelligent AVR (Three Phase)

APR Three Phase Series



For High Power Equipment

New Generation Digital Logic Combined Functional Setting. Complete Capacity and Specifications, CE Certified. The Series is designed of built-in multiple functions digital meters, in conjunction of indicators. The equipment is easy in operation. Joining with a number of patents and anti-mistake engineering design. The producing procedure meet international standard, with high quality and long MTBF, the serial equipment are good for all kinds load and sites.

Features:

- Microprocessor Control Unit (MCU) controlled regulation
- Multi-Phase, Multi-Function and Real-time measuring system Single-Chip (EMP)
- Built-in patented bypass device for equipment protection
- Big range high / low voltage protection device
- Phase loss, instant black-out and short circuit protection device
- Solid-state zero point transform drive circuit
- Start Over Voltage Protection (SOVP)
- Independent regulation and protection design
- Built-in digital voltmeter on internal panel for monitoring voltage, frequency and other electricity information
- Signals of the AVR is totally in True RMS treatment
- Internally and externally built multi-function state indicators
- New type 4-digit safety password setting functions
- Electronic automatic and manual bypass function selection
- Internal abnormal high voltage detecting system
- Separate voltage regulation design, 3 phases imbalance 100%
- Taiwan patent no. M492573
- China patent no. CN203278196U
- Double overload and short circuit protection

✧ Scope of Application:



PCB Drilling Machine



Integrated Processing Machine



SMT



EDM



Milling Machine



AI Component Inserting Machine

Digital Display



Digitally display the functions of voltage and frequency of all phases

Easy and Precise Setting



Press button setting of voltage and frequency of all phases. Functions are complete and operations are easy

SOVP Device



Whether it is switched on or recover from power outage, the Start Over Voltage Protection will always re-start from low voltage, won't have high voltage output

Multi-Function State Display



All states of various power are displayed in indicator allowing for determine the condition of the AVR clearly

Noise Preventing Device



The AVR is installed in extra arc suppressor and noise interference prevention devices

Separated Regulation



Three phase separate regulators design for attaining precise output

I/P & O/P Wires Protection



Wiring fixed, input/output wires well sealed, stable & safety

Abnormal high voltage detecting



When there is a surge inside, the bypass system is activated immediately

H Class Protection



With Class H insulation materials transformer

Model & Specification:

Model No.	APR-	3120 X/N	3150 X/N	3180 X/N	3200 X/N	3250 X/N	3300 X/N
	Capacity (KVA)	120	150	180	200	250	300
I/P Range		-A = ±10%			-B = ±15%		
O/P Accuracy		±1%					
Voltage		X2 : 3 ϕ 3W 220V N1 : 3 ϕ 4W 110/190V or 120/208V			X3 : 3 ϕ 3W 380V N2 : 3 ϕ 4W 220/380V or 230/400V		
Main Structure		Digital logic linear voltage regulation mode					
Voltage Regulating Signals		True RMS (Precision of voltage regulation is not affected by waveform distortion)					
Power Factor		0.95~1					
Efficiency		≥ 98%					
Response time		<0.1 Second					
Waveform Distortion		No distortion					
Protection	High Voltage	Numerical setting of over voltage and delayed action time					
	Low Voltage	Numerical setting of low voltage and delayed action time					
	Phase Loss	The same setting with low voltage					
Bypass		Electronic automatic and manual bypass function selection, it's still with abnormal voltage protecting function when at bypass state					
Indicators	Power	Standard feature					
	Voltage	Standard feature (it can display 3 phase 3 wire and 3 phase 4 wire - 4 digit voltage)					
	Abnormal	Standard feature					
Safety Protection		4-digit safety password setting					
Overload		150% for 10 seconds					
Environment		Temperature:0℃ ~ 45℃		Humidity:0%~95% RH (Non-Condensing)			