

# Intelligent High Power AVR (Three Phase)

PSN series



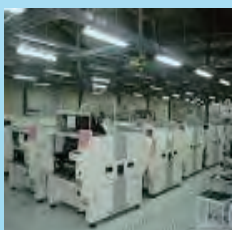
Specially for whole plant power equipment

Intelligent High Power Automatic Voltage Regulator with large capacity sectional and divisional design, it is suitable for entire plant voltage regulation. Combining with distribution panel, it is very convenient to build to the site. Electrical and mechanical monitoring / feedback / warning and remote contact as well as high power surge suppressor, it meets international standard IEEE587 specification.

## Feature:

- Input range is  $\pm 15\%$  ( $\pm 10\% \sim \pm 40\%$  can be customized)
- Output accuracy is within  $\pm 1\%$
- Self-detecting function and intelligent logic voltage regulation design
- No distortion, regulation is accuracy and won't oscillate
- Overload, short circuit protect warning function
- Start over voltage protection
- Powerful overload 150% ability
- High Efficiency  $\geq 98\%$
- With O/P voltmeter to monitor O/P voltage
- Continuous stepless regulator design, three phase independent control
- Front panel with LED indicator displayed
- Each phase and each section with bypass function
- Each phase with high rating M.O.V. device
- Fault warning: LED (red) and alarm (with mute button)

## ✧ Application:



SMT Equipment



Laboratory Equipment



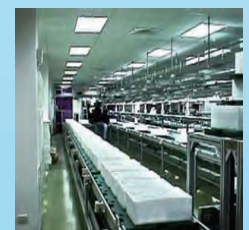
Control Room



Industrial Automation

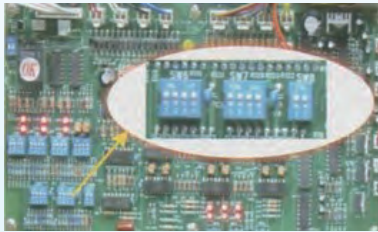


Base Station



Production Line

**Logic Assemble Function Programming**



Adopt with multilayer and big range DIP SW logic assemble design, include high/low voltage, delay, and O/P accuracy setting. All setting can operate and select easier, user can pre-set the most appropriate adjustment in accordance with the load requirement

**Innovative Panel Design**



The display panel provides user a clear viewing which also may seen the indicator's color to realize normal or abnormal. The green LED stands for normal, the red LED with buzzer shown abnormal

**Monitor / Feedback / Buzzer/ Dry Contact**



Output voltmeter monitor three phase voltage. With individual three phase feedback buzzer, mute switch and remote monitor dry contact

**Electronic Bypass Design for Each Phase and Section**



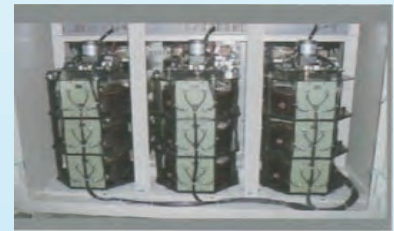
Each phase and each section available separate with their own bypass switch, even under bypass condition which still keep the over/under voltage and phase loss warning function

**SOVP Device**



Whether it is on or recover from power outage, the Start Over Voltage Protection will always re-start from low voltage

**3 Phase Detect & Regulated Separately**



PSN's design is good to detect and adjust three phase individually, the high accurate regulation, output voltage won't oscillation

**Model & Specification:**

Model No. (PSN-)	3150	3200	3250	3300	3400	3500	3600	3750	31000	31200	31500
Capacity (KVA)	X/N	X/N	X/N	X/N	X/N	X/N	X/N	X/N	X/N	X/N	X/N
Voltage	X2 : 3 φ 3W 200V, 220V, 230V, 240V system (I/P and O/P are the same) X3 : 3 φ 3W 380V, 400V system (I/P and O/P are the same) X4 : 3 φ 3W 415V, 440V system (I/P and O/P are the same) N1 : 3 φ 4W 110/190V, 120/208V, 127/220V system (I/P and O/P are the same) N2 : 3 φ 4W 220/380V, 230/400V, 240/415V system (I/P and O/P are the same) (Indicate phase voltage) N3 : 3 φ 4W 220/380V, 230/400V, 240/415V system (I/P and O/P are the same) (Indicate line voltage)										
Input Range	±15% (±10%~±40% can be customized)										
Frequency	50/60Hz±5%										
Output Accuracy	≤ 1%										
Power Factor	0.95~1										
Efficiency	≥ 98%										
Response Time	< 0.1 Sec.										
Waveform Distortion	No distortion (the same with input waveform)										
Warning	High Voltage	Standard Feature (can be Various / Multi / Big range pre-set and LED displayed)									
	Low Voltage	Standard Feature (can be Various / Multi / Big range pre-set and LED displayed)									
	Phase Failure	Standard Feature (can be Various / Multi / Big range pre-set and LED displayed)									
Bypass	Standard Feature (with Phase Failure, Instant Trip, High / Low Voltage warning function at work)										
Indicators	Power	Standard Feature									
	Voltage	Standard Feature									
	Abnormal	Standard Feature									
Overload	150% for 10 seconds										
Environment	Temperature: 0°C~45°C Humidity: 0%~95% RH (Non-Condensing)										