

# Super-Smart AVR (Three Phase Outdoor Type)

PSO three phase series



Specially for outdoor equipment

Intelligent logic assemble function programming, it is suitable for all kinds of load and premises. The product lines have complete series and are all CE certified. Also, its with compact size, high efficiency, and easier to operation. Electrical and servo module mass producing, with several patents and anti-mistake circuit design, the producing procedure meet international standard, with high reliability quality and long MTBF.

## Feature:

- Intelligently logic regulation
- Self-detecting function
- Independent regulation and protection design
- Phase failure, instant black-out, short circuit protection
- With bypass device and protect function
- Big Range high/low voltage protect device
- Start over voltage protection
- Full series with the same control system and multi anti-mistake circuit design
- Powerful overload 150% ability
- With O/P voltmeter to monitor O/P voltage
- With dip sw. and easier for setting
- Separated voltage regulation design, 3 phase unbalance 100%
- Taiwan patent no. 160215, 162577
- China patent no. 125595, 390066
- Double overload and short circuit protection
- With surge suppressor/LC filter/EMI filter (option) to provide pure power.

## ✧ Application:



Base Station



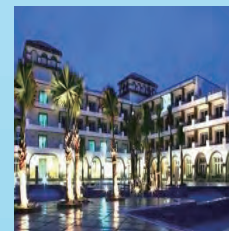
Outdoor Electric Equipment



Communicating Equipment



Bridge

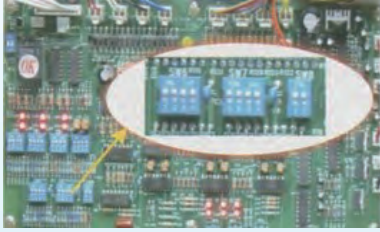


Resort



Park Electric Equipment

### Logic Assemble Function Programming



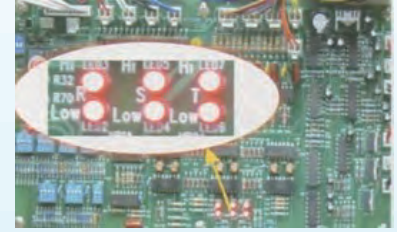
Adopt with multilayer and big range DIP SW logic assemble design, include high/low voltage, delay, and O/P accuracy setting. All setting can operate and select easier, user can pre-set the most appropriate adjustment in accordance with the load requirement

### SOVP Device



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

### Self-Detecting Function



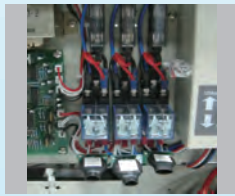
Each time during the unit turn on the AVR, fast detect utility and itself whether under protect setting quickly, then supply precise voltage to the equipment

### With Surge Protection



With lightning and surge protect function

### Separated Regulation



Three phase separate regulators design

### I/P & O/P Wires Protection



Wiring fixed, I/P, O/P wires well sealed, stable & safety

### Bypass & Indication



With three phase voltage indicator and bypass device

### H Class Protection



With Class H insulation materials transformer

## Model & Specification:

Model No. (PSO-)	310 X/N/Y	315 X/N/Y	320 X/N/Y	330 X/N/Y	345 X/N/Y	360 X/N/Y	375 X/N/Y	3100 X/N/Y	3120 X/N/Y	3150 X/N	3180 X/N	3200 X/N	3250 X/N	3300 X/N	3400 X/N
Capacity (KVA)	10	15	20	30	45	60	75	100	120	150	180	200	250	300	400
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) Y : Input 3 φ 3W 380V, Output 3 φ 3W 220V (I/P and O/P are different) Y2 : Input 3 φ 3W , Output 3 φ 4W (I/P and O/P are different)														
Input Range	Nominal Voltage: ±15% (±20%~±40% can be customized) Frequency: 50/60Hz±5%														
Output Accuracy	≤ 1%														
Power Factor	0.95~1														
Efficiency	≥ 98%														
Response Time	< 0.1 Second														
Waveform Distortion	No distortion														
Protection	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 Protection 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)														