

APS - AVR 3P

Fully Automatic Voltage Regulator
3 – 150 kVA



ABOUT PRODUCT

The APS – AVR 3P Voltage Regulator is server drive structured, microcontroller for heavy duty devices. It regulates critical load voltage. The APS AVR consists of a Servo Controlled Injection circuit, that supplies an in phase, or out of phase voltage to the primary of a buck/boost transformer, its secondary winding being connected between the supply and the load. The injection circuit can thus add or subtract a voltage to the supply.

PRODUCT PERFORMANCE

The microprocessor monitors the output voltage of the stabiliser and controls the supply of voltage to the injection circuit. The servo mechanical circuit coupled to the buck boost transformer is energised in the appropriate polarity to restore the voltage to the correct level. The method of stabilisation inherently compensates for any change in the output voltage. By adopting this methodology the APS-3P ensure that loads are not subjected to voltage variations which either are too low or too high, which result in equipment failure such as electronic control systems failing or burning out due to over voltage or motors and cooling systems stalling and failing due to very low voltages as a result of not enough torque. The APS-AVR 3P is designed to operate 24/7 continuously in harsh environments to protect and ensure the long life of equipment. This technology incorporates simple to read displays to ensure clarity of raw power and regulated power from the AVR itself.

MAIN FEATURES

- 3 Phase in / 3 Phase Out (3 -150 kVA)
- Three Phase Voltage stabiliser
- Non-linear charge drive
- Wide power and voltage interval
- Fast Regulation
- Microprocessor and Smart Driver provides high reliability
- High Power Efficiency
- Load transfer Bypass via Pole Charge Switch
- Safe and economic usage
- Overcurrent and overload protection (Optional)
- Digitally display status, input and output measurements
- 2 year warranty
- 10 year spare part support



Antipodes Power Solutions Pty Ltd (APS)

P +61 8 9248 6398 M +61 410 365 289 E marco@antipodespower.com

W: www.antipodespower.com A: 1/16 Juna Drive, Malaga, WA 6090, Australia

ABN 11 616 890 183

APS - AVR 3P

Fully Automatic Voltage Regulator
3 – 150 kVA



TECHNICAL SPECIFICATIONS

Model	33003	33006	33010	330015	330020	330030	330045	330060	330075	330100	330120	330150	
Power kVA	3	6	10,5	15	22,5	30	45	60	75	100	120	159	
Regulator Input													
In. Vol. Correct Interval	190 -485 VAC / 275 - 450 VAC / 310 -450 VAC												
In. Vol. Working Interval	155 - 490 VAC												
Operation Frequency	47 - 65 Hz												
Line Input Protection	Overcurrent, Low and High Voltage Protection												
Output Voltage	380/400/415 VAC RMS \pm 1%												
Overloading	10 Sec, 200% Load												
Upturn Period	~ 90 Volt / Sec												
Output Protection	Protects load by opening circuit when overburdened.												
Working Principle													
	Servo Motor, Microprocessor Controlled, Fully Automatic												
General													
Cooling	Smart Fan System												
Measures Value Monitor	APS True RMS Panel Voltmeter (74 x 74 mm) Output voltage and line voltage monitoring												
Total Harmonic Distortion	N/A												
Total Efficiency	> 96%												
Mechanical Bypass	Manually Controlled Line- PAKO Switch Selects Regulator, Switches ON and OFF												
Protection Level	IP 20 / IP 25												
Environmental													
Working Temperature	- 10°C / 50°C												
Storage Temperature	- 35°C / + 60°C												
Relative Humidity	< 90%, DIN (40040)												
Working Altitude	< 3000m												
Accoustic Level	< 50 dB (1 m ²)												
Certification	CE / TUV Australia Hellas (ISO 9001)												
Dimensions (W x D x H) mm	1100 x 500 x 440				1190 x 600 x 440				1400 x 850 x 640				1630 x 900 x 69
Weight (kg)	75	90	125	135	154	181	227	330	356	456	520	600	



1/16 Juna Drive, Malaga, WA 6090, Australia

P +61 8 9248 6398 M +61 410 365 289 E marco@antipodespower.com

www.antipodespower.com

ABN 11 616 890 183