



AVR3PSxxx-01 RANGE

THREE PHASE STATIC AUTOMATIC VOLTAGE REGULATOR

FEATURES

Designed for regions with voltage supply instability. Designed for remote operation where a high degree of reliability is essential.

Fully electronic with no moving parts for:

- High reliability
- Speed of operation
- Immunity to dust and other environmental conditions

SUITABLE FOR

- Satellite operators
- Infrastructure telecom companies
- Embassies worldwide for reliable electrification of their posts
- Medical systems for digital imaging, scanning and x-ray equipment
- Mobile phone operators
- Offices and factories
- Grid utility companies for voltage regulation to their sub-stations
- Wind Farms

AVR cabinet next to an AUX cabinet

*Actual unit may differ from shown depending on model and options fitted



EQUIPPED WITH

- Class II surge protection
- Digital display: input and output voltage, output current
- Internal automatic bypass
- Modem for remote monitoring
- Automatic Voltage Switcher (AVS) with HVD and LVD
- Input circuit breaker
- Output circuit breaker
- Manual bypass transferring the load to the utility grid

Over-Temp AlarmExternal Bypass Status

HVD Alarm

- Volt free contact alarms:
 - High Temp Alarm
 - Internal Bypass Status
 - I/P Circuit Breaker Status O/P Circuit Breaker Status
 - LVD Alarm
 - General Fault
- Anti-condensation heaters

SPECIAL FEATURES

- Input voltage range ±20%.
- High output protection accuracy ±3%
- High overload capability with up to 150% for 4 minutes
- Very wide losses and minimal heat dissipation due to an efficiency of over 98% at full load
- Enclosure made of galvanised steel construction with high anticorrosion paint finish
- Warranty of 2 years. Sollatek provides full backup support on all its products, with local support in over twenty countries worldwide

TECHNICAL SPECIFICATION

Input Voltage	INPUT					
Additional Voltage THD	Input Voltage	230/400 V ±20%				
Additional Voltage THD	Maximum Input Current	See model table below				
Maximum Input THD Can withstand >10% THD from the supply OUTPUT 230/400 V ±3% Maximum Output Current See model table below Maximum Output Power See model table below Speed of Correction 750 V/s As the AVR powers up, the Load will receive raw mains (i.e. AVR in bypass mode) for a period of 3 seconds while the AVR initialises. If this is not desired, the AVS option (see below) can be used to delay the start-up until the AVR is initialised. Additional Voltage THD <0.25% at output (fested at 100% linear load)(No PVWM methods used)	Frequency Range	45 Hz to 75 Hz				
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GSM Modem To allow remote monitoring (activation required)	Internal Bypass	load without stabilisation. Before returning to normal operation (stabilising the voltage), the AVR				
	GSM Modem	To allow remote monitoring (activation required)				

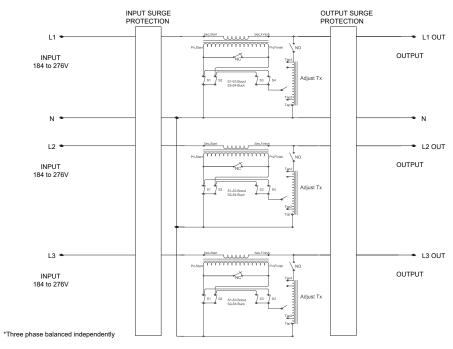


Ambient Temperature	-10°C to +55°C
Relative Humidity	>95%, non-condensing
Environmental Protection	IP21
Acoustic Noise	<45 dB (A), <65 dB with fans on
Expected Service Life	>25 years
Standards	Manufactured to comply with: ISO9001:2015, CE, EN 55022:2010, EN 61000-4-2:2009, EN 61000-4-3:2006, EN 61000-4-4:2012, EN 61000-4-5:2014, EN 61000-4-6:2014, EN 61000-4-11:2004.
Automatic Voltage Switcher	Automatic Voltage Switcher (AVS) provides over and under-voltage protection and a reconnect delay (configurable). Protects the load from an extreme supply voltage where the AVR might not be able to stabilise the output voltage to its operating range.
Input circuit breaker	Input circuit breaker to protect the AVR against overload and short circuits.
Output circuit breaker	Output circuit breaker to protect against overload and short circuit.
Manual By-Pass	By-pass to run load direct from utility power
Volt free Contact Alarms	A general alarm interface using volt free contacts are available for connection to customer site monitoring equipment (SCADA)
Anti-Condensation Heaters	Recommended when the AVR is to be installed in potential condensing environments where the AVR will be off for periods of time
Dimensions (WxDxH)	See model table below
Weight	See model table below

MODEL TABLE

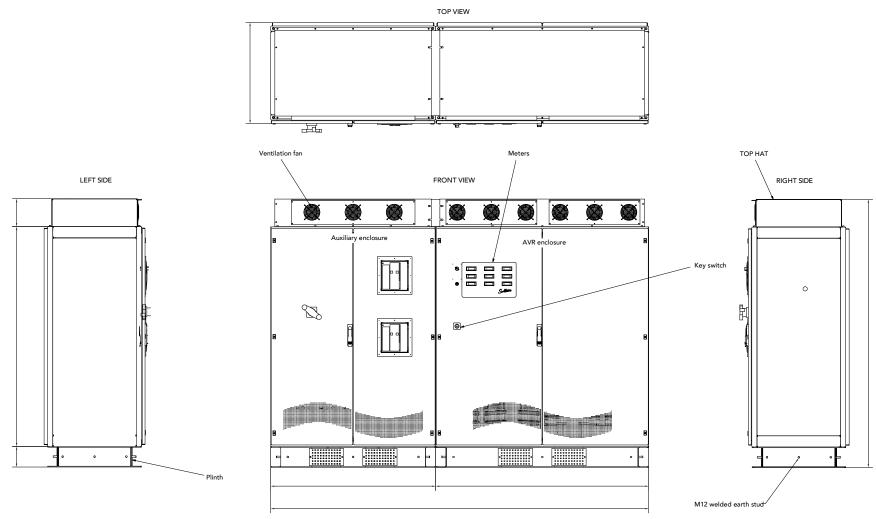
AVR Model	Max Input Current/Phase	Max Output Current/Phase	Output Power @ 230V	Heat Dissipation	AVR Dimension WxHxD	AVR Weight	AUX Dimension WxHxD	AUX Weight
AVR3PS250	312.5 A	250 A	172.5 kVA	3.0 kW	155 x 195 x 74 cm	750 kg	120 x 195 x 74 cm	350 kg
AVR3PS300	375 A	300 A	207.0 kVA	3.6 kW	155 x 195 x 74 cm	900 kg	120 x 195 x 74 cm	350 kg
AVR3PS400	500 A	400 A	276.0 kVA	4.8 kW	160 x 200 x 74 cm	1200 kg	120 x 200 x 74 cm	350 kg
AVR3PS600	750 A	600 A	414.0 kVA	7.2 kW	160 x 200 x 74 cm	1400 kg	120 x 225 x 74 cm	400 kg
AVR3PS800	1000 A	800 A	552.0 kVA	9.7 kW	184 x 225 x 79 cm	1900 kg	120 x 225 x 79 cm	400 kg
AVR3PS1000	1250 A	1000 A	690 kVA	12.1 kW	184 x 225 x 79 cm	2000 kg	120 x 225 x 79 cm	400 kg
AVR3PS1200	1500 A	1200 A	828 kVA	14.5 kW	112 x 225 x 74 cm (x3)	1100 (x3) kg	120 x 225 x 74 cm	400 kg
AVR3PS1500	1875 A	1500 A	1035 kVA	18.1 kW	112 x 225 x 74 cm (x3)	1200 (x3) kg	120 x 225 x 74 cm	450 kg
AVR3PS2000	2500 A	2000 A	1380 kVA	24.2 kW	138 x 225 x 79 cm (x3)	1500 (x3) kg	120 x 225 x 79 cm	500 kg
AVR3PS2500	3125 A	2500 A	1725 kVA	30.2 kW	184 x 225 x 79 cm (x3)	2000 (x3) kg	160 x 225 x 79 cm	600 kg
AVR3PS3000	3750 A	3000 A	2070 kVA	36.2 kW	184 x 225 x 79 cm (x3)	2000 (x3) kg	160 x 225 x 79 cm	600 kg

AVR CIRCUIT DIAGRAM





GENERAL ARRANGEMENT DRAWING



*Different models may vary depending on AVR size, options fitted and customer requirements

SOLLATEK (UK) LIMITED

Sollatek House, Waterside Drive, Langley, Slough SL3 6EZ, United Kingdom

Tel: +44 (1753) 214 500 Email: sales@sollatek.com Web: www.sollatek.com

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