

SOLLATEK AUTOMATIC VOLTAGE REGULATOR

SINGLE PHASE AUTOMATIC VOLTAGE REGULATOR 20 TO 75 AMPS

DESCRIPTION

As both high and low mains voltage can damage your electrical equipment, the Sollatek AVR is designed to monitor and correct the incoming supply continuously. If the mains voltage rises or drops, the AVR will stabilise the output to ensure that the voltage reaching your equipment remains constant at 230 V \pm 4%, within the input operating range of the unit. The Sollatek single phase AVRs are suitable for all applications including domestic and small/medium office use.

Using state of the art technology the Sollatek AVR displays load current, input voltage and output voltage (the display toggles between input and output voltage, using a switch). The AVR is fitted as standard with Class III spike/surge protection. Increased protection up to Class I-II is available, fitted before and after the AVR. Installing an AVR will provide the most comprehensive solution to ensure a stable voltage supply to your valuable equipment.

SUITABLE FOR

- Offices
- Homes/Apartments
- Workshops
- Mobile phone operators
- Medical systems:
 - Digital imaging
 - Scanning
 - X-ray equipment

FEATURES

- Digital display: input and output voltage, output current
- Wide input frequency tolerance allowing unit to function properly in areas of severe voltage disturbances
- High overload capability with up to 150% for 4 minutes
- Very low losses and minimal heat dissipation due to an efficiency of over 96% at full load
- Warranty of 2 years. Sollatek provides full back up support on all its products, with local support in over twenty countries worldwide
- Fitted with output circuit breakers to protect the load



AVR20-22, AVR30-22, AVR40-22



AVR50-22, AVR75-22

TECHNICAL SPECIFICATION

INPUT	
Input Voltage	Nominal 220 V (-30% to +22% input window)
Frequency Range	45 Hz to 75 Hz (i.e. 50 Hz, -10% to +50% or 60 Hz, -25% to +25%)
Additional Voltage THD	<0.2% at input (tested at 100% linear load), (no PWM methods used)
Maximum Input THD	Can withstand $\leq 10\%$ THD from the supply
Output Voltage	220 V (115 V models available)
Correction Time	60 ms (0 to 100% load)
Additional Voltage THD	<0.25% at output (tested at 100% linear load), (no PWM methods used)
Crest Factor	> 1: 3 permissible on load current (tested at 100% load)
Synchronization	Output synchronized to input
Permissible Overload	1000% for 100 milliseconds, 150% for 4 minutes, 110% for 10 minutes
Load Types	Designed to run lighting, motors, battery chargers, communication equipment, office equipment. Suitable for all domestic, commercial and industrial sites
GENERAL	
Technology	All solid state (static) switching
Efficiency	>96% (at 100% linear load)
Control	Microcontroller based control provides system integrity monitoring and diagnostic indicators
Control Protection	Filtering algorithms and fault tolerant software protect against disturbances and false measurements
Power Connections	Rear terminals (nut fixing)
Surge Protection	Class III integrated as standard. Higher protection Class II and Class I-II available
Displays	Digital display
Ambient Temperature Range	-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: EN 50081-1:1992, EN 50082-1:1998, EN 55022:1998, EN 61000-4-2:1995/1998, EN 61000-4-3:1996, EN 61000-4-4:1995, EN 61000-4-5:1995, EN 61000-4-6:1996, EN 61000-4-11:1994, DD ENV 50204
Weight	See model specification table

VOLTAGE TABLE

INPUT	OUTPUT
132	OFF
135	186
145	200
155	214
160	220
165	228
175	223
185	219
195	212
205	222
210	229
215	214
220	220
225	225
235	219
240	223
245	228
255	217
265	226
275	234
285	242
295	251
305	260
315	315

MODEL SPECIFICATION

MODEL	PRODUCT CODE	DESCRIPTION	AMPS	kVA	WEIGHT (kg)	DIMS (L x W x H)
AVR20-22	97102027-CM	AVR20-22 5kVA 20A 230V 50Hz Tower	20	4.6	40	215 x 347 x 520
AVR30-22	97103027-CM	AVR30-22 7.5kVA 30A 230V 50Hz Tower	30	6.9	55	215 x 347 x 520
AVR40-22	97104027-CM	AVR40-22 10kVA 40A 230V 50Hz Tower	40	9.2	60	215 x 347 x 520
AVR50-22	97105027-CM	AVR50-22 12kVA 50A 220-240V 50/60Hz	50	11.5	82	460 x 785 x 445
AVR75-22	97107527-CM	AVR75-22 18KVA 75A 220-240V 50/60Hz	75	17.2	100	460 x 785 x 445

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ISO9001: 2015 accredited company
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