

AUTOMATIC VOLTAGE REGULATOR

AVR02-CMPRW-PETROL PUMP PROTECTION

AVR05-CMPRW-PETROL PUMP PROTECTION

VOLTAGE PROTECTION AND POWER CONTROL FOR PETROL PUMPS

Description

Power quality is essential for petrol pumps especially in areas of erratic voltage. The Sollatek AVR provides stable power by regulating the incoming power. The AVR-CMPRW is especially designed to provide accurate, stable and clean power. It also has built-in RFI (Radio Frequency Interference) protection, a circuit breaker, a change over switch and is housed in a friendly, secure wall mount enclosure. The unit is ideal for:

- Fuel pump station protection
- Any electrical or electronic load

Features

- Very wide input voltage tolerance (-30% to +22%)
- Accurate output voltage (+/-4%)
- Extremely fast response to voltage fluctuations (1250V/s)
- No moving parts. No maintenance required. Unaffected by dusty environment
- Digital meters
- Radio frequency interference filtering
- Output circuit breaker
- Changeover switch
- Wide input frequency tolerance between 45 to 75 Hz
- High overload capability with up to 150% for 4 minutes
- Warranty of 2 years via Sollatek distribution channel



AVRXX-CMPRW (Wall mount, metal casing)

Protection against:

High Voltage



Low Voltage



Spikes/Surges



RFI / Noise



Basic Lightning

Specifications

Input

Input voltage	230V, -30%+22%.
Maximum Input Current	2 and 5 amps (at 100% load and maximum boost) depending on model.
Frequency Range	45Hz to 75Hz (i.e 50Hz -10%, +50Hz. or 60Hz -25%, +25%).
Additional Voltage THD	<0.2% at input (tested at 100% linear load), (No PWM methods used).
Maximum Input THD	Can withstand >10% THD from the supply.

Output

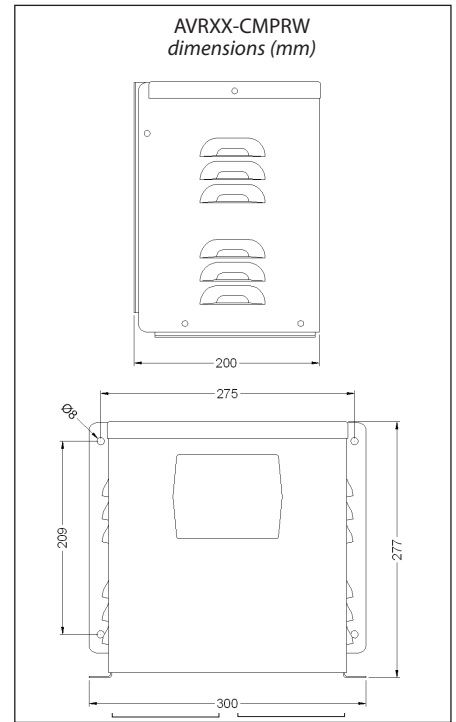
Output voltage	220V, ± 4%.
Maximum Output Current	2 and 5 amps (depending on model).
Maximum Output Power	460VA @ 2 amps and 1,200VA @5 amps.
Correction time	40 msec (0 to 100% load).
Additional Voltage THD	<0.25% at output (tested at 100% linear load), (No PWM methods used).
Crest Factor	>1: 3 permissible on load current (tested at 100% load).
Synchronization	Output synchronized to input.
Permissible Overload	1000% for 100ms, 150% for 4 minutes, 110% for 10 minutes.
Load Types	Designed to protect fuel pumps and petrol station pumps.

Included optional extras

Circuit Breaker	Output circuit breaker to protect against overload and short circuit to the load.
RFI	Radio frequency interference and noise protection.
Digital Meter changeover switch	Indicates the state of the input voltage to compare with the output voltage. Manual switch to bypass the incoming mains from the AVR directly to the load.

General

Technology	All solid state (static) switching.	
Efficiency	>96% average (at 100% linear load).	
Control	Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators.	
Control Protection	Internal surge arrestors and filters in control circuit protect against disturbances. Filtering algorithms and fault tolerant software protect against disturbances and false measurements.	
Power Connections	Supply phases and earth. Load phases, neutral and earth.	
Surge Protection	Input and output surge surge arrestors to protect against extreme surges and lightning on the supply. Dual mode. 4800 joules total.	
Displays	Digital display showing input voltages and output voltage, input current, output current and frequency. Push button to select display mode.	
RFI/EMI filter	Protective mode	L-N, L -E, N-E
	Response time	<10 nanoseconds
	Total energy rating	480 joules
	Max surge current	6.5kA (8/20µs)
	Typical attenuation	50dB @ 10Mhz
Ambient Temperature Range	0 to +55°C.	
Relative Humidity	>95%, non condensing.	
Environmental Protection	IP31.	
Acoustic Noise	< 45 dB (A).	
Expected Service Life	> 25 years.	
Standards	Manufactured to comply with :- ISO9001:2000, CE, 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	AVR02: 9kg. AVR05: 11kg	



ITEM	PRODUCT CODE
AVR02-22 CMPRW	97100227-CMPRW
AVR05-22 CMPRW	97100527-CMPRW

For more information on the Sollatek's Voltage Regulation Range refer to the **Voltright AVR** brochure or visit www.sollatek.com

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