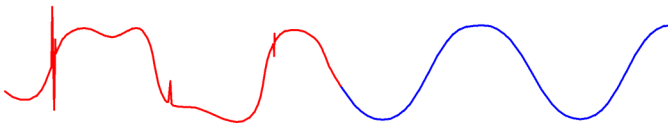


ASR

Advance Sinewave Regenerator

Owners Manual



Safety Instructions



Please read these instructions to familiarise yourself with the operation of your new Advance Sinewave Regenerator.

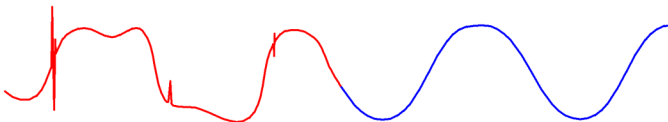
To prevent heat build up within the unit, please ensure adequate airflow is available around the ventilation openings.

Ensure that the frequency and voltage details on the electrical rating plate (rear of unit), match your mains supply.

Do not connect any equipment to the ASR using damaged or frayed cables.

Ensure your equipment is disconnected from the ASR before conducting any maintenance or cleaning of your equipment.

	CAUTION RISK OF ELECTRIC SHOCK. DO NOT OPEN!	
CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		
WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.		



ASR - Technical Summary

The ASR is a precision power supply system incorporating the latest generation Constant Voltage Transformer (CVT) technology.

The output of the ASR is physically separated from the input (Galvanic Isolation), therefore there is no physical connection between the mains supply and the connected load.

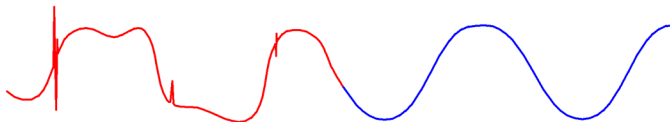
A carefully controlled and tuned ferro-resonant circuit is set up within the ASR, producing a pure regenerated sinewave with output voltage correction and stabilisation.

The ASR provides an impenetrable barrier to damaging spikes and high frequency electrical noise. This also works in reverse, preventing a 'noisy' load from polluting the mains supply.

An energy reservoir ensures that additional power is immediately available when demanded by the connected equipment. This energy reservoir also eliminates degradation of component electronics due to micro breaks in the mains supply.

The ASR is supplied with a pair of unswitched sockets. All other unit switching occurs prior to the filtration and regeneration of the sine wave, ensuring the cleanest possible waveform is delivered to the connected equipment.

Put simply, the ASR will boost the acoustic and visual performance of your equipment by simply enabling it to function to its full potential.



ASR - Application Notes

The ASR is designed to be used with sensitive, low power 'front end' components, such as the Preamp, CD player, Tuner, DVD player or Digital satellite receiver.

Equipment connected via an ASR is totally isolated from the mains supply, and also from any other nearby equipment that may generate electrical pollution, such as the Power Amp.

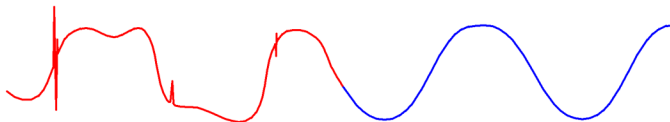
Power Amps generally have good quality power supply units that are able to give some level of protection against incoming mains pollution. However, Power Amps are often responsible for introducing pollution back into the mains supply, which can interfere with unprotected 'front end' components.

The ASR also benefits from a 'floating output', where the Live and Neutral conductors are separated from the safety earth. This prevents unwanted interference from equipment incorporating an input Neutral to Earth filtering, which may reroute some of the incoming electrical pollution back onto the Earth line.

When the ASR is switched on, there is a 5 - 10 millisecond start up current surge as the ASR is energised.

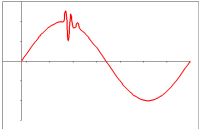
Therefore the ASR should be switched on first, before any connected equipment is powered up. When powering down the ASR should be switched off last.

The ASR is designed to be used at full load; therefore to maximize the benefits, the total connected load should be matched as closely as possible to the rating of the unit.

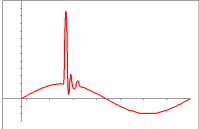


ASR - System connection

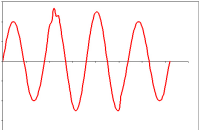
Typical forms of electrical pollution



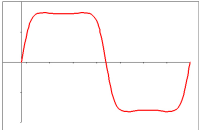
Radio frequency interference



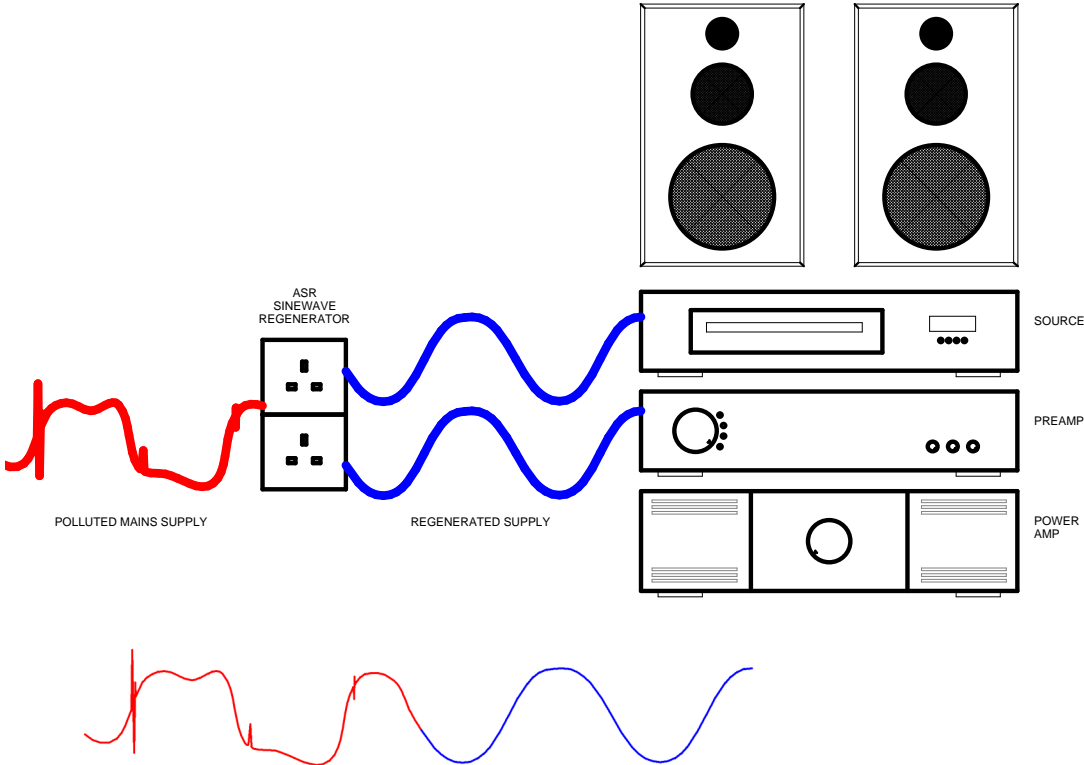
Transient



Voltage surge



Harmonic distortion



Specifications

Rating:

ASR100UK 100 Watts
ASR250UK 250 Watts

Input range:

195 – 265Vac

Frequency:

50Hz

Output range:

223 – 237Vac

Noise attenuation:

Common mode attenuation (75dB)
Series mode attenuation (60dB)

Total Harmonic Distortion (THD):

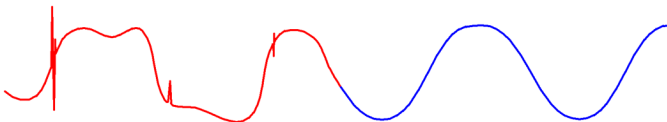
Less than 5% for any input waveform

Dimensions (mm):

265(L) x 205(W) x 165(H)

Weight:

ASR100UK 8kg
ASR250UK 12kg





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