

March 2012

Isotek®

Multi award winning power management systems

Genesis Instruction Manual

**EVO3**

March 2012

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## The company

The logo for IsoTek, featuring the word "IsoTek" in a bold, sans-serif font. A stylized lightning bolt is integrated into the letter "o". A registered trademark symbol (®) is positioned to the upper right of the "k".

## A. Introduction

### **The company**

IsoTek was formed in England July 2001 with the vision to create high quality mains power distribution units that moved beyond current conventions. Through careful market analysis and extensive research we were able to launch products that moved power distribution forward to be recognised as an integral part of any audio or home theatre system. Our products continue to lead the way in power management systems, our latest EVO3 range galvanises our commitment to pursue excellence at every level.

### **The principles**

We believe all products benefit from their own clean power supply, therefore we advocated the concept of using (smaller) individual filters on each component, with these being specifically designed for their purpose, this dramatically reduces and stops component cross contamination and dispels the belief that one size fits all. Every single component used in our designs is extensively tested for quality, reliability and purpose. Our circuit designs are extensively 'field' tested before coming to market so we can guarantee the widest compatibility with third party products.

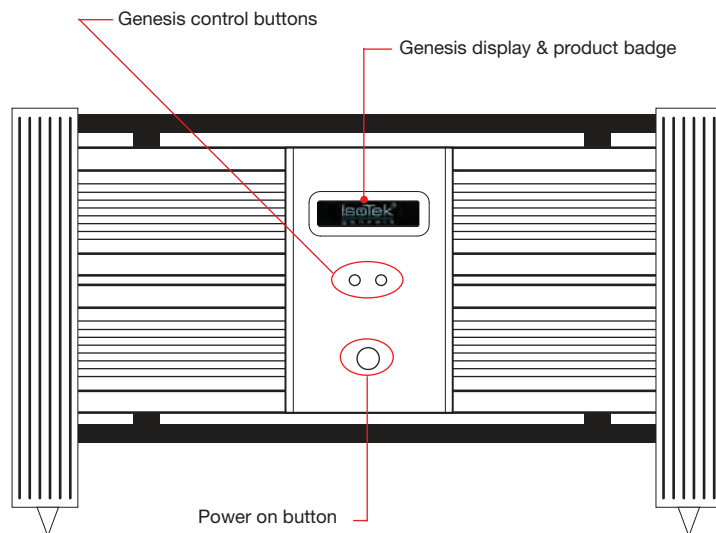
### **The execution**

Within the market of premium audio it is vital to offer exceptional performance and value for money. Products must be made to the highest of standards, be reliable and attractive. A manufacturer must offer exceptional service, dealer training, support and undertake the very best in promotion design and literature. If all these elements are in place customers should experience excellence at every stage. Our continual quest is to meet these challenges.

All of our products are professionally designed in England with deep consideration given to both style, functionality, performance and value for money. Our European manufacturing facility offers a multi-award winning hand built product line.

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## Front elevation of the unit



## B. The product

### Overview

The IsoTek Genesis completely re-defines the term mains re-generation. IsoTek believe it to be the first true mains generator. The mains sine wave is not corrected (as in other devices) but totally and completely rebuilt, 'generated' from new with a THD distortion figure of less than 0.3%. More over it has two generation engines.

The term re-generation to describe current market solutions (competition) is somewhat misleading, and would better be described as repairing distortions in the mains. Re-generation implies new born which is certainly not what is happening.

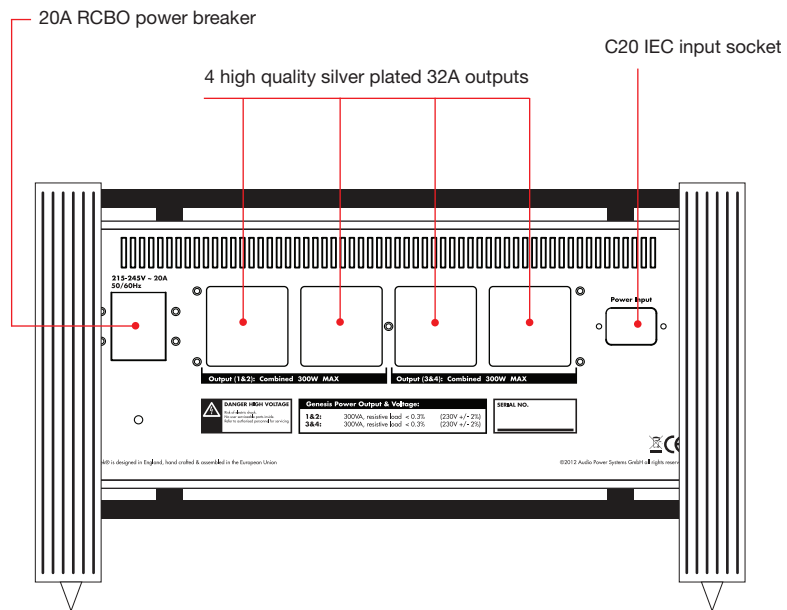
The draw back of these so called re-generators is input and output power factor. For example if the input THD is 1% then they can correct it to 0.3% and indeed claim this, but this is very rarely the case. It is often much worse. If the THD rises higher, for example 5%, then they can only correct it to 1.5% as they are not really re-building a clean mains sine wave.

Unlike and in total contrast to current products on the market classified as mains re-generators Genesis rebuilds a completely new mains sine wave. It is the world's first true audiophile mains generation system running in class AB with two 300W generation engines, giving a total output of 600W of completely new power built from within a extremely low distortion oscillator. This signal is then amplified by two analogue class AB amplifiers with high quality output transformers. These have copper foil between the primary and secondary output, this stops distortion and noise passing through the unit. Competitor products have no means to stop the interference of noise or distortions created by measuring electronics (display) influencing connected electronics.

Every single output of Genesis is totally and independently isolated; no two outputs are connected together eliminating differential mains noise created by all connected electronics cross contaminating.

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## Back elevation of the unit



### Overview continued

This sophisticated network harnesses IsoTek's already class leading reputation for power conditioning technology.

Genesis outputs a very stable and very precise 230V/50Hz mains sine wave, that is in no way effected by the input quality of the power line. The output of Genesis is completely independent from the input mains distortion. The mains can be 10% THD and Genesis will still deliver less than 0.3%. A high, bigger THD creates bigger DC current, Genesis totally eliminates all DC distortion so nothing can pass to the output.

Genesis also controls mains voltage, the output voltage will always be 230V +/- 2%. This is an absolute ideal as 'locking' the voltage is not necessary, maintaining a tight tolerance is arguably better. The European standard is 230 +/- 10%.

### Features

Genesis features 4 high quality outlets at the rear. These are grouped in pairs, with each pair having a maximum VA loading of 300. The output sockets are designed for 'front end' equipment such as CD Players, DACs, Pre-amplifiers etc.

Power amplifiers **SHOULD NOT BE CONNECTED**.

The input is a high quality C20 IEC, IsoTek's Extreme power cable is included to power the unit. At the rear is an RCBO this needs to be engaged prior to turning on the unit at the front.

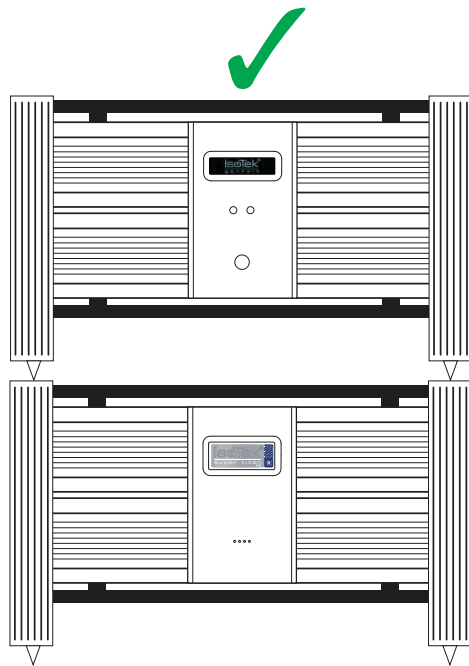
Each Genesis is totally isolated from microphony by way of the unique and innovative ISIS frame.

On the front of the unit is a centrally positioned power button and two selector buttons. These turn on / turn off either of the two power generating cells.

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## B. The product

### Weight loading



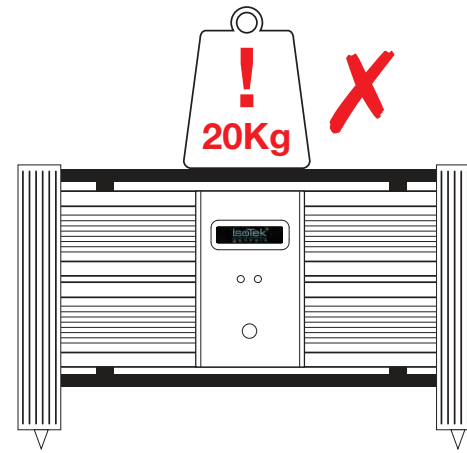
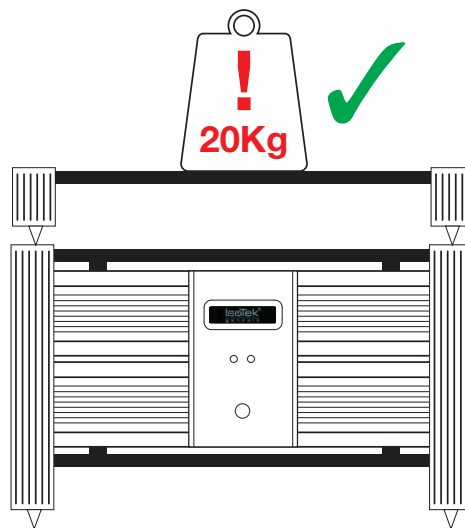
### Safety

Genesis has its own dedicated built in isolation system so it is not necessary to place it into or onto an audio rack system. However you should insure that Genesis is placed in a location which allows sufficient ventilation for the internal electronics. Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths, curtains etc. No naked flame sources, such as lighted candles should be placed on the unit.

Other items may be placed on top of the Genesis but only with an additional isolation platform, this is available to purchase separately. Genesis can also be stacked in multiple units or stacked on top of Super Titan.

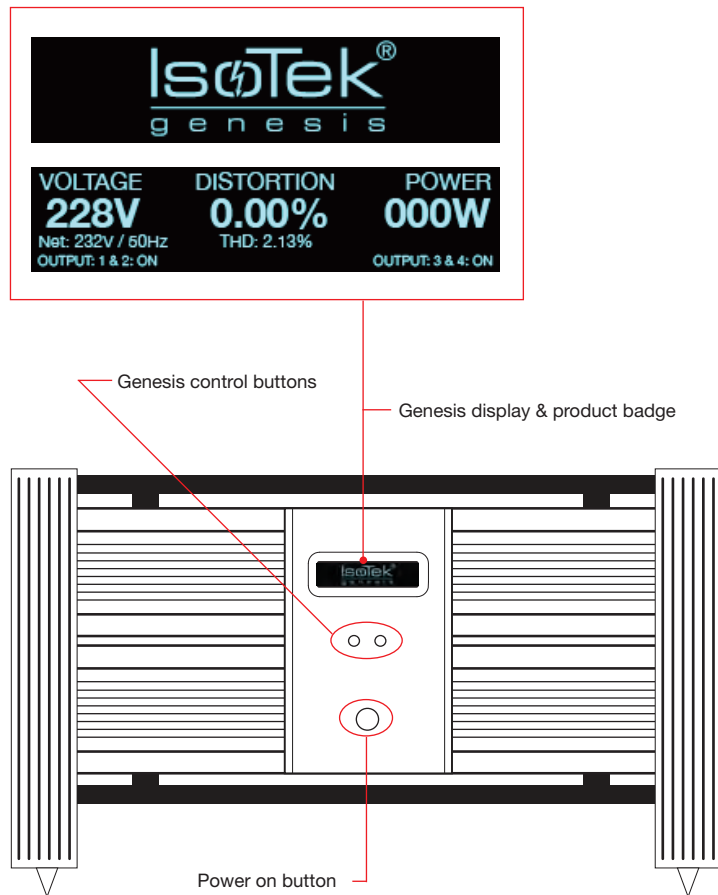
**The apparatus must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on top.**

Should either of these events happen immediately switch off the unit at the wall socket, wait for at least one minute, unplug all other cables and return it to your authorised IsoTek dealer for a full service.



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## Cable connection & power on



## C. Installation

### Equipment coupling

Once Genesis is positioned, connect the unit to a mains wall socket. Plug the supplied Extreme power cable into the right C20 IEC and then into the wall socket. For European customers please ensure that mains phase is correct. Genesis has 4 output sockets at the rear. Connect equipment to these with power cables, again ensure mains phase is correct. Each outlet can supply a maximum of 150W, if the power consumption of the connected units exceeds this Genesis will shut down the power generation cell.

### Turning on

Turn on the RCBO on the left hand side of the back panel. Now turn on the large button on the central front panel of Genesis. You will notice that the LED display will show a powering up sequence.

The display will now display Voltage, Distortion, Power. Below the screen are two control buttons, with these you can turn on the two power generation cells. Each controls two output sockets. To turn on the cell hold the button in for 3 seconds. The screen will show 'OUTPUT: 1&2: ON'. The screen will also update the input Voltage, Distortion and Power, after 10 seconds the screen will display the product name. If you wish to re-read the input and output data simply press either of the control buttons. The left control button will show information relating to outputs '1&2', the right information about '3&4'.

You can also turn off the two banks of output sockets by holding down the control button for 3 seconds.

Once the power cells are on and the output sockets are being supplied with clean power you can turn on your connected front-end equipment one by one.

**The apparatus must be connected to an earthed mains socket-outlet.**

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## Fuse location & Power switch



Fuse in UK three pin plug

## D. Troubleshooting

### Fault finding

The front LED display does not illuminate.

Check that the 32Amp RCBO on the left hand side of the back panel is turned on. Check that the power cable is correctly connected to the power input socket.

Check that the mains cable is securely plugged into the wall socket.

On rare occasions the fuse in the main distribution fuse box may also need to be checked.

Check that the central front power on button is also turned on by pushing full in.

The front LED display is on but I have no power to the outlets.

Check that each of the two power cells is on. These are turned on by the two control buttons under the LED display screen. To turn on outputs '1&2' hold down the left control button for 3 seconds, the screen will update and display this. To turn on outputs '3&4' hold down the right control button for 3 seconds, the screen will update to display this.

We would strongly recommend a simple check of mains polarity. Your local IsoTek authorised dealer will be able to supply a product through us to help you establish this. Mains polarity is of particular importance in markets where European Shuko plugs are used.

**Always replace fuses with the same fuse type and rating.**

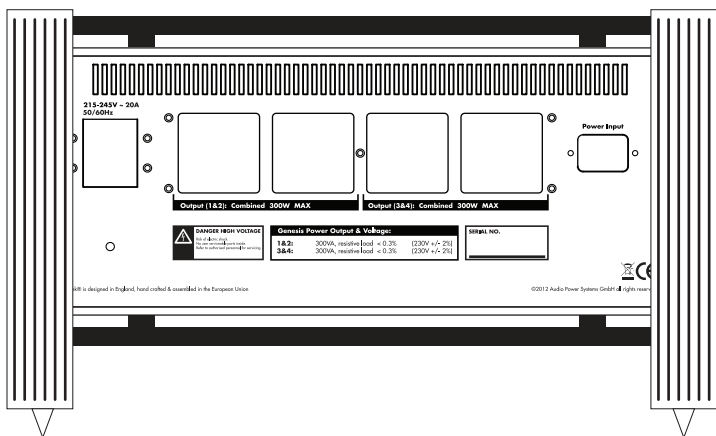
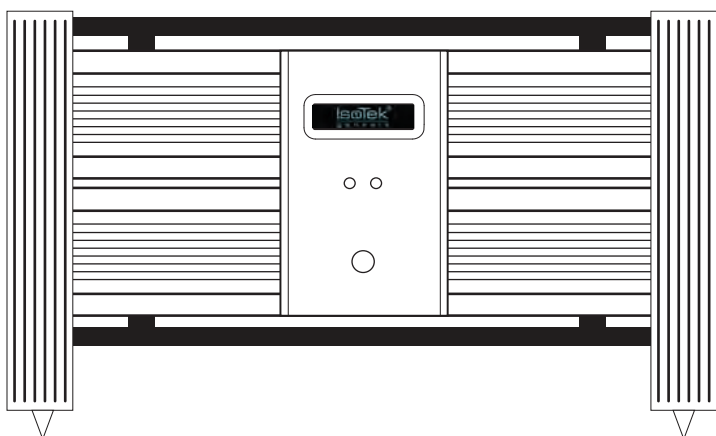
Please contact us by email; [support@isoteksystems.com](mailto:support@isoteksystems.com) if you are in any doubt about the correct fusing or need further help with fault finding.



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## E. Specifications

### Front & rear elevation



### Dimensions & sockets

The following information relates only to the IsoTek Genesis.

Number of outlets:	4
Type of outlets:	UK, US, EU, ZA, AU, CH unswitched
Mains inlet:	C20 IEC
Nominal input voltage:	215 - 245VAC
Nominal output voltage:	230VAC +/- 2%
Output distortion:	< 0.3% (resistive load 300VA)
Input frequency:	50/60Hz (auto-sensing)
Output frequency:	50Hz
Total available power (230V):	600W
Dimensions:	500mm x 500mm x 300mm (WxDxH)
Weight:	35.0Kg

Please note, the information given in this document is correct at the time of print. Small production changes in the course of improvement through our ongoing research and development policy may arise.

If clarification of any point is required please refer to your local authorised IsoTek dealer or visit [www.isoteksystems.com](http://www.isoteksystems.com) where you can download the very latest information.

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Please complete & send

## G. Warranty

As part of our on-going commitment to the highest standards of customer service, IsoTek offers you the opportunity to extend the standard 2 year product warranty to 3 years, free of charge. Simply visit:

**[www.isoteksystems.com/register](http://www.isoteksystems.com/register)**

And follow the on screen instructions. This service will automatically update your details and give confirmation of your registration via email within 24 hours.

IsoTek will not share your personal details with any third parties without your permission.

If you do not have internet access then please forward a copy of your invoice, together with the product serial number and your address to our UK office:

IsoTek Systems,  
4 Mozzetta,  
Kings Head Yard,  
Winchester,  
SO23 9HN  
England.