

Product Change Notice RoHS Compliance Revision I

Bordeaux, France January, 1st 2010

As a global player, GAIA Converter is committed to fulfill the requirements of the European Directive on the Restriction of Hazardous Substances (RoHS) 2002/95/EC applicable since July, 1st 2006 for electronic equipment in areas such, information technology, telecom, consumer equipment,

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As a player in various areas, GAIA Converter has put in place a comprehensive plan to migrate to the European Directive 2002/95/EC applicable since July 1st, 2006 with minimum disruption for our customers.

1- For all GAIA Converter Industrial Grade Products

All GAIA Converter industrial products are RoHS compliant since July, 1st 2006 :

- MGDI-04 : 4W Industrial series to RoHS6
- MGDI-10 : 10W Industrial series to RoHS6
- MGDI-18 : 18W Industrial series to RoHS6
- MGDI-20 : 20W Industrial series to RoHS6
- MGDI-25 : 25W Industrial series to RoHS6
- MGDI-26 : 26W Industrial series to RoHS6
- CGDI-30 : 30W Industrial series to RoHS6
- MGDI-35 : 35W Industrial series to RoHS6
- MGDI-60 : 60W Industrial series to RoHS6
- MGDI-100 : 100W Industrial series to RoHS6

2- For the following GAIA Converter Hi-Rel Grade Products

All following GAIA Converter Hi Rel products are RoHS compliant since Jan. 1st 2010 :

- MGDM-04 : 04W Hi-Rel series to RoHS6
 - MGDM-10 : 10W Hi-Rel series to RoHS6
 - MGDM-18 : 18W Hi-Rel series to RoHS6
 - MGDM-20 : 20W Hi-Rel series to RoHS6
 - MGDM-25 : 25W Hi-Rel series to RoHS6
 - MGDM-26 : 26W Hi-Rel series to RoHS6
 - CGDM-30 : 30W Hi-Rel series to RoHS6
 - MGDM-35 : 35W Hi-Rel series to RoHS6
 - HGMM-35 : 35W AC/DC Hi-Rel series to RoHS6
 - PGDS-50 series, LGDS-50, HUGD-50 series to RoHS6
- (For North America non RoHS product will remain available)

3- For the following GAIA Converter Hi-Rel Grade Products

The following Hi-Rel Products are RoHS since introduction and will remain as is :

- MGDM-100 : 100W Hi-Rel series to RoHS6
- FGDS-2A-50V/FGDS-20A-50V : EMI Filter 2A / EMI Filter 20A to RoHS6
- LGDS-300 : Limitor module to RoHS6

4- For the following GAIA Converter Hi-Rel Grade Products

The following Hi-Rel Products will remain as is :

- MGDM-75 : 75W Hi-Rel series to RoHS5
- MGDM-150 : 150W Hi-Rel series to RoHS5
- HGMM-350 : 350W AC/DC Hi-Rel series to RoHS5

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Product Markings

In order to identify RoHS to non RoHS products, GAIA Converter has adopted the following tip on the module marking :

Since July 1st, 2005 (product date code 0527) all GAIA Converter products are identified as follow :

- for non RoHS products : a 'L' identification letter will be attached to the product datecode marking.
- for RoHS products : no special marking for RoHS products.

The following table resumes the different product markings :

Product Compliance	Product Datecode Marking (yy : year of manufacturing ww : week of manufacturing)	
	Before July 1st, 2005 (before date code 0527)	After July 1st, 2005 (starting date code 0527)
Non RoHS compliant Product	yyww	yywwL
RoHS compliant Product	/	yyww

Customer Responsibility

GAIA Converter products, once converted to RoHS will be compliant with the European Directive 2002/95/EC. GAIA Converter does not warrant that customers own product, which incorporate such GAIA Converter products, will turn to comply with the European Directive 2002/95/EC.

In all events the customer shall remain liable for ensuring it's own product meet the requirements of the European Directive 2002/95/EC, including but not necessarily limited to :

- verifying the compatibility with it's own soldering process
- checking marking and date code of all GAIA Converter products
- qualifying product in it's application, ...

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RoHS Directive

The RoHS Directive is a European Directive 2002/95/EC for Restriction of Hazardous Substances. From July 2006, new electrical and electronic equipment put on the market should not contain Lead, Mercury, Hexavalent Chromium, Cadmium, Polybrominated Biphenyls, and polybrominated Diphenyl Ethers.

RoHS5 and RoHS6

The common definition of RoHS5 compliance means product that are compliant with the RoHS requirements for 5 substances (Mercury, Hexavalent Chromium, Cadmium, Polybrominated Biphenyls, and polybrominated Diphenyl Ethers) but contains Lead in solder paste and/or internal components/material.

RoHS6 compliance means compliant with RoHS Directive on the 6 substances.

RoHS Supply Chain Compliance

GAIA has initiated supply chain RoHS compliance far in advance with tracking, separate stocks, follow up, to ensure that all components, materials, tools for its products are compliant with European Directive 2002/95/EC.

RoHS Process Compliance

GAIA Converter is using lead free compatible SMD lines with lead free solder paste SnAgCu type.

RoHS Product Interface Compliance (Pins)

For all product, GAIA Converter pins finishing is pure matte tin over nickel underplate.

RoHS Product Qualification

For Industrial products, GAIA Converter has qualified the RoHS process. Qualification report with cross sectioning and metallurgical analysis is available upon request.

For Hi-Rel products qualifications to comply with harsh environment have been achieved with HALT and HASS screening including thermal cycles and shocks to simulate acceleration factor.

Qualification reports can be found at www.life-amelie.info