

## **DECLARATION OF CONFORMITY**

Council Directive(s) to which conformity is declared:

**CD 73/23/EEC and CD 89/336/EEC**

Units are certified for compliance with:

**EN50178 (1997)  
EN 50081-2 (1993)  
EN 55011 (1994)  
EN 50082-2 (1995)  
EN 61000-4-2 (1995)  
ENV 50140 (1993) & ENV 50204 (1995)  
EN 61000-4-4 (1995)  
ENV 50141 (1993)  
EN 61000-4-8 (1993)**

Type of Equipment:

**Inverter (Power Conversion Equipment)**

Model Name:

**SV - iS3 Series**

Trade Mark:

**LG Industrial Systems Co., Ltd.**

Representative:

**LG International (Deutschland) GmbH**

Address:

**Lyoner Strasse 15,  
60528, Frankfurt am Main,  
Germany**

Manufacturer:

**LG Industrial Systems Co., Ltd.**

Address:

**181, Samsung-Ri, Mokchon-Myon, Chonan-Si,  
330-845, Chungnam,  
Korea**

**We, the undersigned, hereby declare that equipment specified above conforms to the Directives and Standards mentioned.**

Place: **Frankfurt am Main  
Germany**

**Choan-Si, Chungnam,  
Korea**

 20/02/01  
(Signature / Date)

 02/04/01  
(Signature / Date)

**Mr. Ik-Seong Yang / Dept. Manager**  
(Full name / Position)

**Mr. Hyuk-Sun Kwon / General Manager**  
(Full name / Position)

## **TECHNICAL STANDARDS APPLIED**

The standards applied in order to comply with the essential requirements of the Directives 73/23/CEE "Electrical material intended to be used with certain limits of voltage" and 89/336/CEE "Electromagnetic Compatibility" are the following ones:

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• <b>EN 50178 (1997)</b>	"Safety of information technology equipment".
• <b>EN 50081-2 (1993)</b>	"Electromagnetic compatibility. Generic emission standard. Part 2: Industrial environment."
• <b>EN 55011 (1994)</b>	"Limits and methods of measurements of radio disturbance characteristics of industrial, scientific and medical (ISM) radio frequency equipment."
• <b>EN 50082-2 (1995)</b>	"Electromagnetic compatibility. Generic immunity standard. Part 2: Industrial environment."
• <b>EN 61000-4-2 (1995)</b>	"Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 2: Electrostatic discharge immunity test. Basic EMC Publication (IEC 1000-4-2: 1995)."
• <b>ENV 50140 (1993)</b>	"Electromagnetic compatibility - Basic immunity standard - Radiated radio-frequency electro magnetic field - Immunity test."
• <b>ENV 50204 (1995)</b>	"Radio electromagnetic field from digital radio telephones."
• <b>EN 61000-4-4 (1995)</b>	"Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transients / burst immunity test. Basic EMC Publication (IEC 1000-4-4: 1995)."
• <b>ENV 50141 (1993)</b>	"Electromagnetic compatibility. Basic immunity standard. Conducted disturbances induced by radio-frequency fields."
• <b>EN 61000-4-8 (1993)</b>	"Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity test - Basic EMC Publication (IEC 1000-4-8: 1993)."

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# EMI / RFI POWER LINE FILTERS



## RFI FILTERS

THE L.G. RANGE OF POWER LINE FILTERS FF (Footprint) – FE (Standard) SERIES, HAVE BEEN SPECIFICALLY DESIGNED WITH HIGH FREQUENCY LG INVERTERS, THE USE L.G. FILTERS, WITH THE INSTALLATION ADVICE OVERLEAF HELP TO ENSURE TROUBLE FREE USE ALONG SIDE SENSITIVE DEVICES AND COMPLIANCE TO CONDUCTED EMISSION AND IMMUNITY STANDARDS TO EN50081

## CAUTION

IN CASE OF A LEAKAGE CURRENT PROTECTIVE DEVICES IS USED ON POWER SUPPLY, IT MAY BE FAULT AT POWER-ON OR OFF.

IN AVOID THIS CASE, THE SENSE CURRENT OF PROTECTIVE DEVICE SHOULD BE LARGER THAN VALUE OF LAKAGE CURRENT AT WORST CASE IN THE BELOW TABLE.

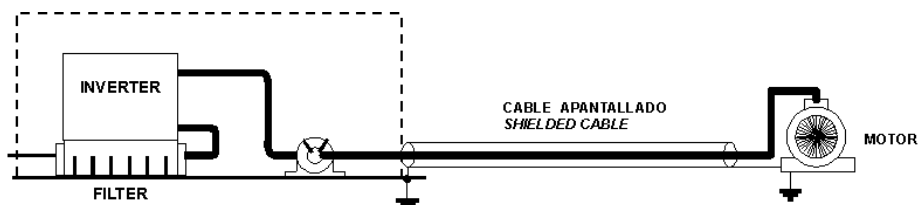
## RECOMMENDED INSTALLATION INSTRUCTIONS

To conform to the **EMC** directive, it is necessary that these instructions be followed as closely as possible. Follow the usual safety procedures when working with electrical equipment. All electrical connections to the filter, inverter and motor must be made by a qualified electrical technician.

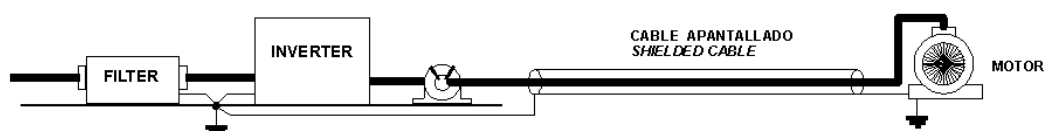
- 1-) Check the filter rating label to ensure that the current, voltage rating and part number are correct.
- 2-) For best results the filter should be fitted as closely as possible to the incoming mains supply of the wiring enclosure, usually directly after the enclosures circuit breaker or supply switch.
- 3-) The back panel of the wiring cabinet of board should be prepared for the mounting dimensions of the filter. Care should be taken to remove any paint etc... from the mounting holes and face area of the panel to ensure the best possible earthing of the filter.
- 4-) Mount the filter securely.
- 5-) Connect the mains supply to the filter terminals marked **LINE**, connect any earth cables to the earth stud provided. Connect the filter terminals marked **LOAD** to the mains input of the inverter using short lengths of appropriate gauge cable.
- 6-) Connect the motor and fit the ferrite core (output chokes) as close to the inverter as possible. Armoured or screened cable should be used with the 3 phase conductors only threaded twice through the center of the ferrite core. The earth conductor should be securely earthed at both inverter and motor ends. The screen should be connected to the enclosure body via and earthed cable gland.
- 7-) Connect any control cables as instructed in the inverter instructions manual.

IT IS IMPORTANT THAT ALL LEAD LENGHTS ARE KEPT AS SHORT AS POSSIBLE AND THAT INCOMING MAINS AND OUTGOING MOTOR CABLES ARE KEPT WELL SEPARATED.

### FF SERIES ( Footprint )



### FE SERIES ( Standard )



# EMI / RFI POWER LINE FILTERS



## RFI Filters (Footprint - Standard) for iS3 SERIES

iS3 series		Filtros Footprint		Footprint Filters										
VARIADOR INVERTER	POT. POWER	CODIGO CODE	INTENS. CURRENT	TENSION VOLTAGE	CORRIENTE DE FUGAS LEAKAGE CURRENT		DIMENSIONES DIMENSIONS L W H			MONTAJE MOUNTING Y X		PESO WEIGHT	TORNILLOS DE FIJACION MOUNT	CHOQUES DE SALIDA OUTPUT CHOKES
TRIFASICOS		THREE PHASE		NOM. MAX.										
LGSV022iS3-2	2.2kW	FF-T030-( x )	30A	250VAC	0.3A	18A	354 x 213.5 x 45	340.5 x 150					M6	FS – 2
LGSV037iS3-2	3.7kW													
LGSV055iS3-2	5.5kW	FF-T050-( x )	50A	250VAC	0.3A	18A	404 x 213.5 x 60	390.5 x 150					M6	FS – 2
LGSV075iS3-2	7.5kW													
LGSV110iS3-2	11kW	FF-T070-( x )	70A	250VAC	0.3A	18A	559 x 256.7 x 65	533.5 x 180					M8	FS – 2
LGSV150iS3-2	15kW													
LGSV180iS3-2	18kW		100A	250VAC	0.3A	18A								FS – 3
LGSV220iS3-2	22kW													
LGSV022iS3-4	2.2kW	FF-T016-( x )	16A	380VAC	0.5A	27A	404 x 213.5 x 50	390.5 x 150					M6	FS – 2
LGSV037iS3-4	3.7kW													
LGSV055iS3-4	5.5kW	FF-T031-( x )	31A	380VAC	0.5A	27A	404 x 213.5 x 60	390.5 x 150					M6	FS – 2
LGSV075iS3-4	7.5kW													
LGSV110iS3-4	11kW	FF-T051-( x )	51A	380VAC	0.5A	27A	559 x 256.7 x 60	533.5 x 180					M8	FS – 2
LGSV150iS3-4	15kW													
LGSV180iS3-4	18kW	FF-T075-( x )	75A	380VAC	0.5A	27A	652 x 302 x 65	629.4 x 200					M8	FS – 2
LGSV220iS3-4	22kW													

iS3 series		Filtros Estándar		Standard Filters										
VARIADOR INVERTER	POT. POWER	CODIGO CODE	INTENS. CURRENT	TENSION VOLTAGE	CORRIENTE DE FUGAS LEAKAGE CURRENT		DIMENSIONES DIMENSIONS L W H			MONTAJE MOUNTING Y X		PESO WEIGHT	TORNILLOS DE FIJACION MOUNT	CHOQUES DE SALIDA OUTPUT CHOKES
TRIFASICOS		THREE PHASE			NOM. MAX.									
LGSV022iS3-2	2.2kW	FE-T030-( x )	30A	250VAC	0.3A	18A	270 x 140 x 60	258 x 106				---		FS – 2
LGSV037iS3-2	3.7kW													
LGSV055iS3-2	5.5kW	FE-T050-( x )	50A	250VAC	0.3A	18A	270 x 140 x 90	258 x 106				---		FS – 2
LGSV075iS3-2	7.5kW													
LGSV110iS3-2	11kW	FE-T070-( x )	70A	250VAC	0.3A	18A	350 x 180 x 90	338 x 146				---		FS – 2
LGSV150iS3-2	15kW	FE-T100-( x )	100A	250VAC	0.3A	18A	425 x 200 x 130	408 x 166				---		FS – 3
LGSV180iS3-2	18kW	FE-T120-( x )	120A	250VAC	1.3A	150A	425 x 200 x 130	408 x 166				---		FS – 3
LGSV220iS3-2	22kW													
LGSV022iS3-4	2.2kW	FE-T016-( x )	16A	380VAC	0.5A	27A	250 x 110 x 60	238 x 76				---		FS – 2
LGSV037iS3-4	3.7kW													
LGSV055iS3-4	5.5kW	FE-T030-( x )	30A	380VAC	0.5A	27A	270 x 140 x 60	258 x 106				---		FS – 2
LGSV075iS3-4	7.5kW													
LGSV110iS3-4	11kW	FE-T050-( x )	50A	380VAC	0.5A	27A	270 x 140 x 90	258 x 106				---		FS – 2
LGSV150iS3-4	15kW													
LGSV180iS3-4	18kW	FE-T060-( x )	60A	380VAC	0.5A	27A	270 x 140 x 90	258 x 106				---		FS – 2
LGSV220iS3-4	22kW	FE-T070-( x )	70A	380VAC	0.5A	27A	350 x 180 x 90	338 x 146				---		FS – 2

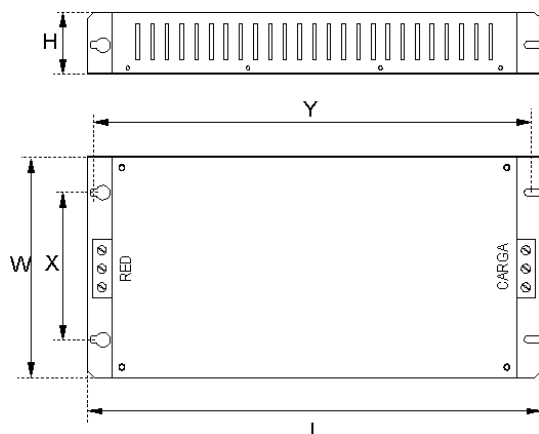
- (x) (1) Industrial environment EN 50081-0 (A class)  
(2) Domestic and industrial environment EN 50081-1 (B class)

# EMI / RFI POWER LINE FILTERS

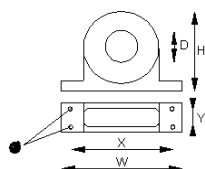
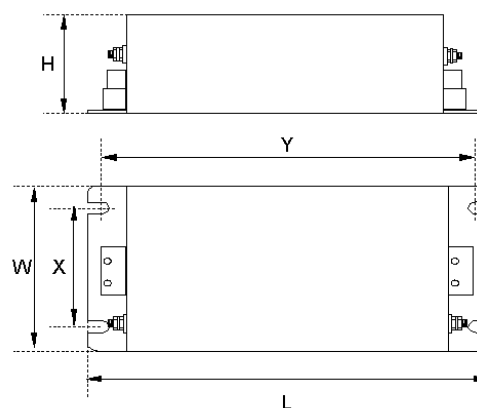


## DIMENSIONS

**FF SERIES ( Footprint )**



**FE SERIES ( Standard )**



**FS SERIES ( output chokes )**

TIPO	D	W	H	X	O
FS - 1	21	85	46	70	5
FS - 2	28.5	105	62	90	5
FS - 3	48	150	110	125 x 30	5
FS - 4	58	200	170	180 x 45	5

Polígono Industrial de Palou  
 08400 Granollers ( Barcelona )  
 SPAIN / ESPAÑA  
 Tel: +34 93 861 14 60  
 Fax: +34 93 879 26 64  
 E-mail: [info@lifasa.com](mailto:info@lifasa.com)  
[vsd@lifasa.es](mailto:vsd@lifasa.es)  
<http://www.lifasa.com>



INTERNATIONAL CAPACITORS