2 YEAR LIMITED WARRANTY

The DC-FA-100, DC-FA-200 and DC-FA-300 fuse assemblies manufactured by Samlex America, Inc. (the "Warrantor") is warranted to be free from defects in workmanship and materials under normal use and service. The warranty period is 2 years for the United States and Canada, and is in effect from the date of purchase by the user (the "Purchaser").

Warranty outside of the United States and Canada is limited to 6 months. For a warranty claim, the Purchaser should contact the place of purchase to obtain a Return Authorization Number.

The defective part or unit should be returned at the Purchaser's expense to the authorized location. A written statement describing the nature of the defect, the date of purchase, the place of purchase, and the Purchaser's name, address and telephone number should also be included.

If upon the Warrantor's examination, the defect proves to be the result of defective material or workmanship, the equipment will be repaired or replaced at the Warrantor's option without charge, and returned to the Purchaser at the Warrantor's expense. (Contiguous US and Canada only)

No refund of the purchase price will be granted to the Purchaser, unless the Warrantor is unable to remedy the defect after having a reasonable number of opportunities to do so. Warranty service shall be performed only by the Warrantor. Any attempt to remedy the defect by anyone other than the Warrantor shall render this warranty void. There shall be no warranty for defects or damages caused by faulty installation or hook-up, abuse or misuse of the equipment including exposure to excessive heat, salt or fresh water spray, or water immersion.

No other express warranty is hereby given and there are no warranties which extend beyond those described herein. This warranty is expressly in lieu of any other expressed or implied warranties, including any implied warranty of merchantability, fitness for the ordinary purposes for which such goods are used, or fitness for a particular purpose, or any other obligations on the part of the Warrantor or its employees and representatives.

There shall be no responsibility or liability whatsoever on the part of the Warrantor or its employees and representatives for injury to any persons, or damage to person or persons, or damage to property, or loss of income or profit, or any other consequential or resulting damage which may be claimed to have been incurred through the use or sale of the equipment, including any possible failure of malfunction of the equipment, or part thereof. The Warrantor assumes no liability for incidental or consequential damages of any kind.

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Fuse Assembly	Owner's Manual	Please read this manual before installing your fuse assembly
DC-FA-100 DC-FA-200 DC-FA-300		

INTRODUCTION

Fuse Protection in the Battery Circuit

A battery is an unlimited source of current. If there is a short circuit along the length of the cables that connect the battery to the inverter, thousands of Amperes of current can flow from the battery causing shorting: a section of the cable can overheat, the insulation can melt and the cable can ultimately break. This interruption of high current can generate hazardous, high temperature, high energy arc accompanied by a high pressure wave that may cause fire, damage to nearby objects or injury. To prevent the occurrence of such hazards under short circuit conditions, an appropriate fuse should be used in the battery circuit with the required current interrupting capacity (Termed AIC – Ampere Interrupting Capacity). For this purpose, fuses with an AIC rating of 10000 A at 14 V / 5000 A at 32 V, or higher should be used.

CONSTRUCTION

The DC-FA-100, DC-FA-200 and DC-FA-300 Fuse Assemblies contain 100A, 200A and 300A fuses respectively (Fig. 1). These fuses are Marine Rated Battery Fuses (MRBF-XXX Series) and are also sold separately for replacement. Samlex Models: MRBF-100, MRBF-200, MRBF-300.

Electrical Specifications

- Voltage rating of max 58 VDC
- Current ratings are 100 A (MRBF-100), 200 A (MRBF-200) and 300 A (MRBF-300)
- AIC of 10000 A at 14VDC, 5000 A at 32 VDC and 2000 A at 58 VDC
- Ignition protected as per SAE J1171
- Weather Proof (IP66)

The MRBF Fuse provides easy, weatherproof and economical circuit protection in tight space constraints. The fuse is installed between the Positive Battery Terminal Stud and the Positive Battery Cable with the help of a special Clamping Fixture.

The Clamping Fixture consists of the following:

- Clamping Fixture Bar (CFBAR), Fig. 2. Has a base plate for connecting to the battery stud (with a hole
 to accommodate battery stud of up to stud size 3/8" / M10) and a stud (size M-8) for connecting the
 fuse MRBF and the battery cable.
- Stainless Steel nut (thread size M8, will require ½" or 13 mm wrench for tightening), Flat Washer and Spring Washer, Fig. 3.

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 An Insulating Cap, Fig. 4. It slides over the base plate of CFBAR and is used to insulate the exposed stud and the nut of the CFBAR.



Fig. 1. Marine Rated Battery Fuse (MRBF)



Fig. 3. M-8 Nut, Flat Washer and Spring Washer



Fig. 2. Clamping Fixture Bar (CFBAR) or Single Pole Fuse Bar



Fig. 4. Insulating cap

INSTALLATION

A. Insert the fuse MRBF onto stud provided on the CFBAR. See Fig.5.



Fig. 5. Fuse MRBF inserted into the stud on CFBAR

B. Insert the cable lug (crimped to one end of the Positive battery cable) onto the CFBAR stud so that it sits over the fuse MRBF. See Fig. 6.



Fig. 6. Fuse MRBF and cable lug inserted into the stud of the CFBAR

C. Insert the flat washer, the spring washer and the M-8 nut on to the CFBAR stud and tighten the nut with a $\frac{1}{2}$ " wrench. See Fig. 7.



Fig. 7. Fuse MRBF and Positive cable fixed to the CFBAR

D. Slide the Insulating Cap onto the rectangular strip of the CFBAR and then insert the hood portion onto the exposed portion of the stud of the CFBAR. See Figures 8 and 9.



Fig. 8. Insulating Cap slid over the rectangular portion of CFBAR

Fig. 9. CFBAR with fitted fuse MRBF

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E. Bolt the CFBAR to the Positive terminal stud of the Battery usually denoted by the '+' sign as shown in Fig. 10.



Fig. 10. Installed arrangement

F. Please ensure that all the connections are tight.