TECHNICAL SPECIFICATION SHEET: MRBF TERMINAL FUSE & HOLDER

Marine Rated Battery Fuse (MRBF) Block | High-Current DC Circuit Protection (30A - 300A / 58V DC)

1. PRODUCT OVERVIEW & KEY FEATURES

Product Type	Marine Rated Battery Fuse (MRBF) Terminal Block & Fuse Assembly
Primary Application	DC Main Battery Circuit Protection, Marine Inverters, Solar Storage, Winches, Heavy Duty RVs
Key Advantages	Compact Direct-Battery Mount | Weatherproof Protective Cap | High Interrupt Rating (AIC) | Ignition Protected

2. ELECTRICAL SPECIFICATIONS

Parameter	Specification	Category / Type	Technical Notes
Maximum Voltage Rating	58V DC Max	Target DC Battery Voltag	12V / 24V / 48V DC Systems
Available Amperage Range	30A - 300A	Fuse Ratings Available	30A, 50A, 75A, 100A, 150A, 200A, 250A, 300A
Fuse Time Characteristic	Slow-Blow / Time-Delay	Overload Tolerance	Tolerates high inrush currents (Inverters/Motors)
Ignition Protection Rating	Designed in accordance with SAE J1171 and ISO 8846 standards for safe installation in marine engine compartments.	Safety Standard	Safe for installation in marine engine compartments

3. SHORT-CIRCUIT INTERRUPTING CAPACITY (AIC / Icn)

DC Operating Voltage	Interrupting Rating (AIC)	nterrupting Rating (kA	Compliance & Application Standard
58V DC (Max Rated Voltage)	**2,000 A**	2.0 kA	14 requirements for DC Interrupt Rating.
32V DC (Medium DC Voltages)	**5,000 A**	5.0 kA	Suitable for 24V Commercial Vehicle & Marine Banks
14V DC (Standard 12V Battery)	**10,000 A**	10.0 kA	High short-circuit withstand for 12V LiFePO4 / Lead-A

4. MECHANICAL & MATERIAL SPECIFICATIONS

Mechanical Feature	Specification	Secondary Feature	Specification / Rating
Terminal Stud Size	M8 (5/16") Stainless Steel	**Stud Torque Rating**	8.5 Nm (75 in-lbs)
Mounting Hole Size	M10 (3/8") Terminal Ring	**Base Material**	PPS (Polyphenylene Sulfide), UL 94-V0 Thermal Plastic
Insulating Cap Material	Santoprene / Flexible Red PVC	**Busbar Material**	Tin-Plated High-Conductivity Copper (C11000)
Operating Temperature	-15°C to +105°C	**Environmental Rating**	IP54 / Waterproof & Dustproof

5. INSTALLATION GUIDELINES & COMPLIANCE

• **Direct Battery Mounting:**	Mount directly onto the M10 battery post or busbar terminal to provide immediate short-circuit protection.
• **ABYC E-11 Compliance:**	Must be installed within 7 inches (178mm) of the battery power source to comply with ABYC standards.
• **Torque Specification:**	Tighten the M8 stud nut to a maximum torque of 8.5 Nm. Over-tightening may damage the thermoplastic base.
• **Protective Red Cap:**	Always keep the red insulating boot fully covers the live terminal stud to prevent accidental short circuits.



*Manual measurement may result in some errors.