

## SafetyHub 100 Fuse Block

PN 7725 / PN 7725B

PN 7725 includes a connector plug for the ATO®/ATC® fuse circuits

The Blue Sea Systems SafetyHub 100 is an ignition-protected fuse block with an integrated connecting plug. It consolidates 1A–200A fuses, and can be wired directly to the battery (for unswitched fuse protection) or after the battery switch (for switched fuse protection).



- ✔ Disconnect all battery connections before beginning the installation.
- ✔ Blue Sea Systems strongly recommends that a competent electrical professional perform the installation of this product.

**GUARANTEE:** Blue Sea Systems stands behind its products for as long as you own them. Find detailed information at [www.blueseasystems.com/about](http://www.blueseasystems.com/about). For customer service, call 800-222-7617.

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980004720 Rev.004

## Specifications

Amperage Maximum Operating (combined)	(see table below)
Nominal Operating Voltage	12V DC
Minimum Input Cable Size to Meet Ratings	4/0 AWG (120 mm <sup>2</sup> )
Recommended Ring Terminal	M8 (5/16")
Stud Size	M8 x 1.25
Stud Torque	15 ft-lb (20.3 N-m)

### AMI®/MIDI® Fuse Block

Amperage Maximum Operating (per block)	240A†
Amperage Maximum Operating (per circuit)	170A†
Fuse Amperages Available	30A–200A
Minimum Cable Size to Meet Ratings	2/0 AWG (70 mm <sup>2</sup> )
Screw Size	M5 x .8 x 10
Screw Torque	27 in-lb (3.0 N-m)

### ATO®/ATC® Fuse Block

Amperage Maximum Operating (per block)	50A†
Amperage Maximum Operating (per circuit)	20A†
Fuse Amperages Available	1A–20A

### Regulatory

CE marked

Meets ISO 8846 ignition protection and SAE J1171 external ignition protection requirements.  
IP66—protected against powerful water jets

### Input Wire Size and Current Derating Table

AWG Wire Size	Metric Wire Size	Amperage Maximum Operating (combined)
4/0 AWG	120 mm <sup>2</sup>	280A
2/0 AWG	70 mm <sup>2</sup>	225A
1 AWG	50 mm <sup>2</sup>	180A
4 AWG	25 mm <sup>2</sup>	125A

† Ratings are dependent on input cable sized for appropriate amperages.

### Unlatch the two yellow tabs on the fuse cover to access fuses.

The ATO®/ATC® Fuse Block of the SafetyHub 100 is used for low-amp circuits. The total continuous amperage of this block must not exceed 50A.  
The AMI®/MIDI® Fuse Block of the SafetyHub 100 is used for high-amp circuits. The total continuous amperage of this block must not exceed 240A

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# Installation Instructions

## Mounting

Install the SafetyHub 100 in a readily accessible location as close as possible to the battery. To avoid corrosion to connecting wires and terminals, mount in a dry and protected location. Avoid mounting directly above vented lead acid batteries so that the SafetyHub 100 Fuse Block is not exposed to corrosive gasses from the batteries. Where possible, mount the SafetyHub 100 in a vertical orientation.

For help selecting the appropriate wire size and circuit protection rating, refer to the Circuit Wizard at [www.circuitwizard.blueseas.com](http://www.circuitwizard.blueseas.com)

## High Current Input Connection

To use the SafetyHub 100 as an unswitched fuse block, connect the positive battery terminal directly to the input stud on the SafetyHub 100. To use the SafetyHub 100 as a switched fuse block, connect the output of the battery switch to the input stud on the SafetyHub 100. Torque the SafetyHub 100 input connection to 15 ft-lb.

## AMI®/MIDI® Fuse Circuit Connections

To connect high-amp loads such as an engine starting circuit, distribution panel, or windlass, use the numbered high-amp studs.

*Note: Wires used for engine starting do not require circuit protection.*

*If you choose not to fuse the engine starting circuit, use the PN 7732 Engine Circuit Link Bus instead of a AMI®/MIDI® fuse. Do not use the 7732 Link Bus for any other purpose.*

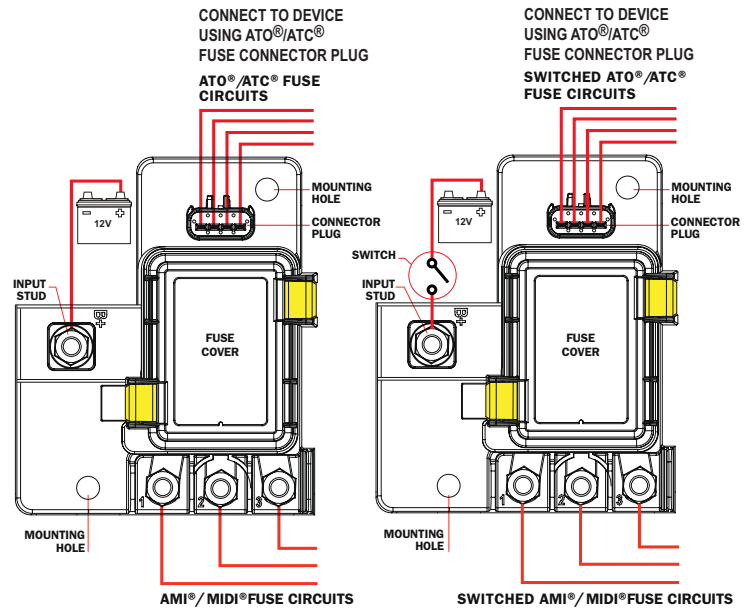
## ATO®/ATC® Fuse Circuit Connections

To connect low-amp loads such as a bilge pump, VHF radio, clock memory, or alarm, connect to the SafetyHub 100 plug receiver. PN 7725 includes a wire harness for these connections.

# Wiring Diagram

For **unswitched** circuit protection the SafetyHub 100 is connected directly to the battery for boats at moorage.

For **switched** circuit protection the SafetyHub 100 is connected after the battery switch for trailer or dry storage boats.



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