

m-Series Battery Switches (Mini)

300 Amperes Continuous Rating for outboards and small inboard gasoline engines

7/8" (22.22mm) stud length to accept multiple cable terminals
 3/8"-16 tin-plated copper studs for maximum conductivity and corrosion resistance, accepts 3/8" (M10) ring terminals

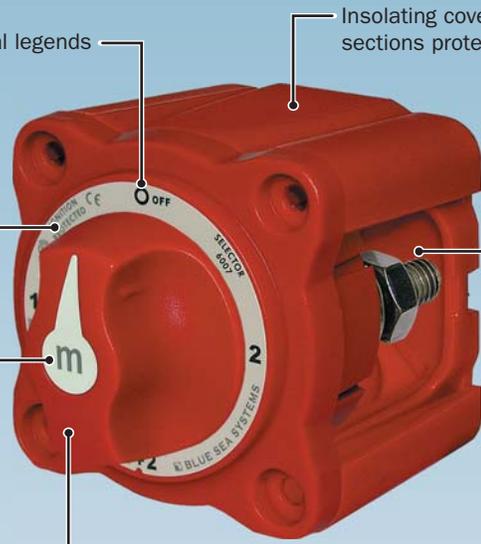


Removable knob or key remains positively retained

Label with international legends

Ignition protected - safe for installation aboard gasoline powered boats

6 ICON label set included for circuit identification
 ENGINE
 ENGINE 1
 ENGINE 2
 HOUSE
 GENERATOR
 PARALLEL



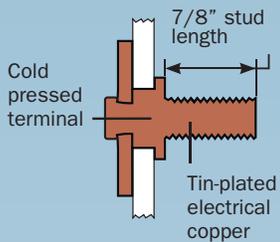
Insulating cover with snap-in sections protects rear contacts

Accepts up to 4/0 AWG (95mm²) battery cables

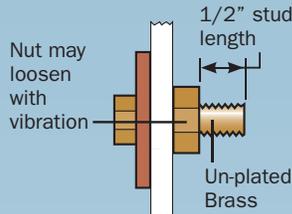
Ideal for marine or RV applications



Superior stud design



Blue Sea Systems' One Piece Stud



Common Two Piece Stud

Three mounting options available



Rear panel mount - up to 1/8" (3.2mm) panel thickness



Front panel mount - up to 3/4" (19mm) panel thickness



Surface mount

Specifications

	6005-6007	6010-6011
Maximum Voltage Rating	48 Volts DC	32 Volts DC
Inrush Rating: 2.5 sec.*	1,500 Amperes DC	1,200 Amperes DC**
Cranking Rating: 100 sec.*	700 Amperes DC	600 Amperes DC**
Intermittent Rating: 5 min. (UL 1107)	500 Amperes DC	450 Amperes DC**
Continuous Rating: (UL 1107)	300 Amperes DC	300 Amperes DC**
Terminal Stud Torque	140 in-lb (15.82 N·m)	140 in-lb (15.82 N·m)
Terminal Stud Size	3/8"-16 (M10)	3/8"-16 (M10)
Cable Size to Meet Ratings***	4/0 AWG (95mm ²)	4/0 AWG (95mm ²)

PN	Description	Weight Lb (Kg)
6005	Single Circuit ON/OFF (Key)	0.62 (0.28)
6006	Single Circuit ON/OFF (Knob)	0.65 (0.29)
6007	Selector	0.77 (0.35)
6010	Dual Circuit™	0.80 (0.36)
6011	Dual Circuit Plus™	0.80 (0.36)

Certifications

CE marked

UL Listed - UL 1107 electric power switches

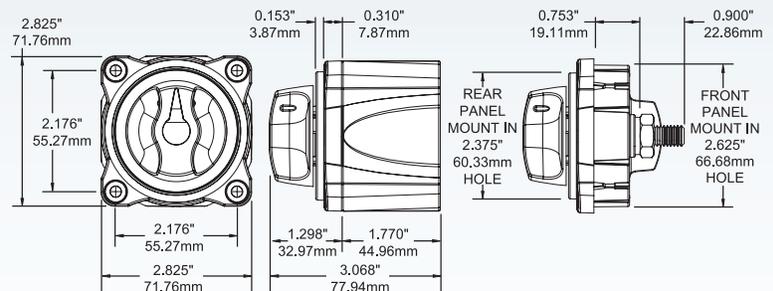
Agency Standards

Meets UL 1500 and SAE J1171 external ignition protection requirements

* See Blue Sea Systems Engine Starting Standard on reverse side

** Per circuit

*** Reducing cable sizes will reduce current ratings



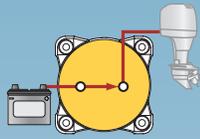


6006

IP Single Circuit ON/OFF



6005



Switch Set to "ON"

APPLICATIONS

1. Switches a single battery to a single load group.
2. Can be used in multiples to manage several isolated circuits including cross connecting for emergency paralleling.

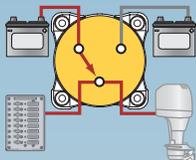
Note: 6005 replaces 9005

6006 replaces 9006

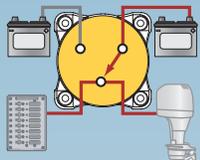


6007

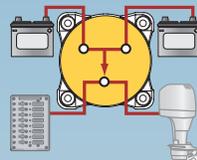
IP Selector



Switch Set to "1"



Switch Set to "2"



Switch Set to "1+2"

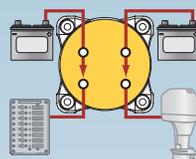
APPLICATION

Switches battery bank 1, battery bank 2, or battery banks 1 and 2 to all loads using one switch.

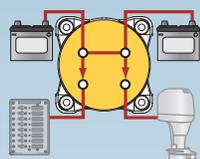


6011

IP Dual Circuit Plus™



Switch Set to "ON"



Switch Set to "COMBINE BATTERIES"

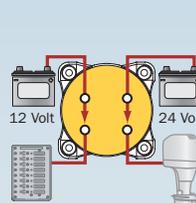
APPLICATIONS

1. Switches two battery banks simultaneously with one simple ON/OFF switch while maintaining battery bank isolation, minimizing the risk of a dead start battery.
2. The COMBINE BATTERIES function offers the ability to combine the two battery banks in the event of a low start battery.

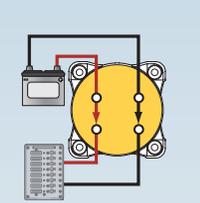


6010

IP Dual Circuit™



Switch Set to "ON"
Isolated Battery Banks



Switch Set to "ON"
One Battery Bank

APPLICATIONS

1. Switches both positive and negative lines simultaneously with one simple ON/OFF switch meeting European and metal boat requirements for a double pole switch.
2. Switches circuits of different voltages, such as 12 Volt and 24 Volt, simultaneously with one simple ON/OFF switch.

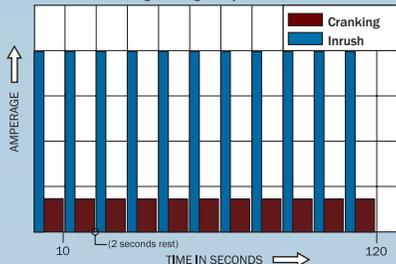
Battery Switch Ratings

The UL standard for marine battery switches is UL Standard 1107. This standard rates switches only for 5 minute and 1 hour time periods. Clearly, these ratings are not useful for the boater using a switch in the engine starting circuit where current durations may be 10 seconds or less. For this reason, Blue Sea Systems has created an additional standard called the Engine Starting Standard. The Engine Starting Standard is 10 cycles, each consisting of an Inrush Current spike of 1/4 second duration, a Cranking period of 9-3/4 seconds duration, and a 2 second rest period for a total of 120 seconds. This is representative of the load imposed on a battery switch in the starting circuit under very difficult starting conditions. Blue Sea Systems battery switches, in addition to being tested to UL 1107, are also tested to the Engine Starting Standard by a United States Coast Guard certified Nationally Recognized Testing Laboratory.

Blue Sea Systems' Engine Starting Standard

Blue Sea Systems' Engine Starting Standard

Inrush and Cranking Starting 10 Cycle



UL 1107 Standard

Intermittent must be minimum 150% of continuous amperage

