

Dual Circuit Plus™ Battery Switches

The Power of THREE Switches in ONE



Dual Circuit Plus™ Battery Switch Advantages:

1. Simple ON/OFF switching in NORMAL operation (with an ACR or isolator installed)
2. Normal "ON" position isolates Start and House circuits to:
 - reduce the chance of fully discharging both batteries
 - protect electronics from engine starting sags and spikes
3. The "Combine Batteries" position parallels two battery banks in the event of a low Start battery



PN	Description	Weight Lb (Kg)
6011	m-Series, Dual Circuit Plus™ Battery Switch	0.80 (0.36)
5511E	e-Series, Dual Circuit Plus™ Battery Switch	1.27 (0.57)

Specifications

Inrush Rating: 2.5 sec.*
 Cranking Rating: 100 sec.*
 Intermittent Rating: 5 min. (UL 1107)
 Continuous Rating: (UL 1107)
 Terminal Stud, Tin-Plated Copper
 Torque
 Cable Size to Meet Ratings**
 Maximum Voltage Rating
 Cable Clearance For 4/0 Cables
 Case Material
 CE marked

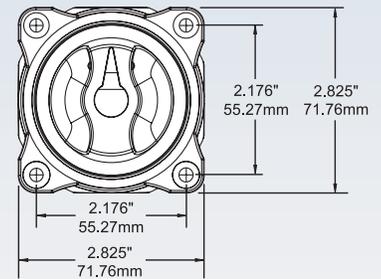
m-Series 6011

1,200 Amperes DC
 600 Amperes DC
 450 Amperes DC
 300 Amperes DC
 3/8"-16 (M10)
 120 in-lbs.
 4/0 AWG (95mm²)
 32 Volts DC
 1.12" (25.4mm)
 Reinforced Polycarbonate

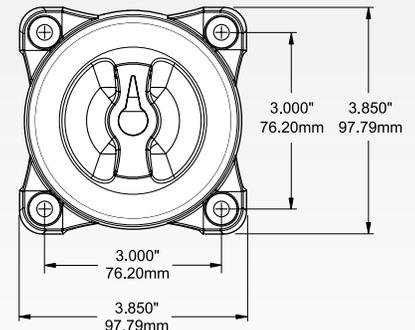
e-Series 5511E

1,500 Amperes DC
 700 Amperes DC
 525 Amperes DC
 300 Amperes DC
 3/8"-16 (M10)
 140 in-lbs.
 4/0 AWG (95mm²)
 32 Volts DC
 1.10" (28.0mm)
 Reinforced Polycarbonate

m-Series Dimensions



e-Series Dimensions



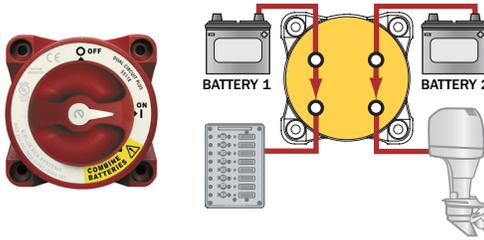
Agency Specifications

- UL Listed - UL 1107 electric power switches (pending testing)
- Ignition Protected - Meets UL 1500 and SAE J1171 external ignition protection requirements
- * See www.blueseasystems.com for Blue Sea Systems Engine Starting Standard
- ** Reducing cable sizes will reduce current ratings

Dual Circuit Plus™ Battery Switch

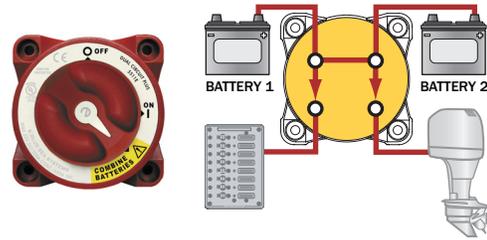
Switch Set to "ON"

Batteries isolated - Current flow from both House and Start batteries



Switch Set to "COMBINE BATTERIES" ⚠ SEE BELOW

Batteries combined - Current flow from both House and Start batteries



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 - reduce the chance of fully discharging both batteries
 - protect electronics from engine starting sags and spikes
- 3) The "Combine Batteries" position parallels two battery banks in the event of a low Start battery

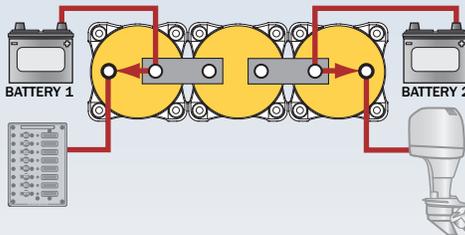
Compare with the alternatives

Multiple SINGLE CIRCUIT ON/OFF Battery Switches



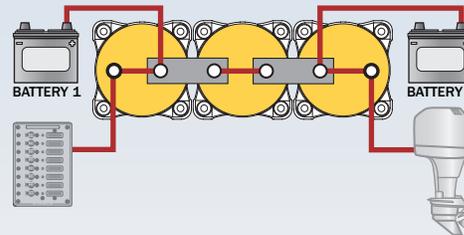
Battery 1 Switch Set to "ON" Battery 2 Switch Set to "ON"

Current flow from Battery 1 to House circuit and Battery 2 to Start circuit



Battery 1 Switch Set to "ON" ⚠ SEE BELOW Battery 2 Switch Set to "ON"

Emergency Parallel Battery Switch Set to "ON"
Batteries combined - Current flow from both House and Start batteries



Single Circuit ON/OFF Disadvantages

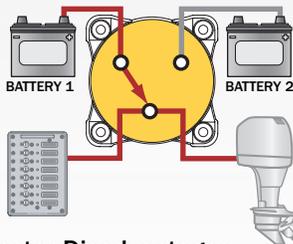
- 1) Most expensive option
- 2) Requires more space
- 3) Not intuitive to operate - user must operate 3 switches
- 4) Wiring and switch interconnection complexity

SELECTOR Battery Switch



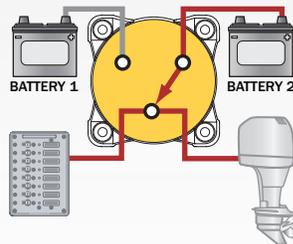
Switch Set to "1"

Current flow from Battery 1 to both House and Start circuits



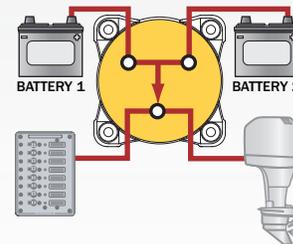
Switch Set to "2"

Current flow from Battery 2 to both House and Start circuits



Switch Set to "1+2" ⚠ SEE BELOW

Batteries combined - Current flow from both House and Start batteries



Selector Disadvantages

- 1) Not intuitive to operate
- 2) "1+2" position parallels batteries increasing the chance of fully discharging both batteries
- 3) "1+2" position parallels Engine and House circuits exposing electronics to sags and spikes caused by engine starting