









Manual Battery Switch Comparison



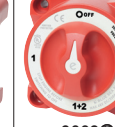



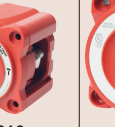


| Switch Type | Single Circuit ON-OFF | | | | | | Selector 3 Position | |
|---|--|--|---|---|--|--|---|---|
| Function | Switches a single battery to a single load group | | | | | | Switches battery banks to all loads | |
| Switch Family | M-Series | M-Series | e-Series | e-Series | HD-Series | HD-Series | e-Series | HD-Series |
| PN |  6005 |  6006 |  9003e |  9004e |  3000 |  3001 |  11001 |  11003 |
| Alternator Field Disconnect* | - | - | - | Yes* | - | Yes* | Yes* | Yes* |
| Make Before Break Contact Design | - | - | - | - | - | - | - | - |
| I ₁₀ Cranking Rating (10 sec.) | 1,500A | 1,500A | 2,000A | 2,000A | 2,750A | 2,750A | 2,000A | 2,750A |
| I ₆₀ Cranking Rating (1 min.) | 775A | 775A | 1,000A | 1,000A | 1,325A | 1,325A | 1,000A | 1,150A |
| I ₃₀₀ Intermittent Rating (5 min.) | 500A | 500A | 600A | 600A | 900A | 900A | 600A | 700A |
| I _c Continuous Rating | 300A | 300A | 350A | 350A | 600A | 600A | 350A | 500A |
| V _{mxo} Voltage Maximum Operating | 48V DC | 48V DC | 48V DC | 48V DC | 32V DC | 32V DC | 32V DC | 32V DC |
| Terminal Stud Size | 3/8"-16 (M10) | 3/8"-16 (M10) | 3/8"-16 (M10) | 3/8"-16 (M10) | 1/2" (M12) | 1/2" (M12) | 3/8"-16 (M10) | 1/2" (M12) |
| Terminal Stud Length | 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) |
| Maximum Terminal Stud Torque | 120 in-lb (13.56 N-m) | 120 in-lb (13.56 N-m) | 140 in-lb (15.82 N-m) | 140 in-lb (15.82 N-m) | 220 in-lb (24.86 N-m) | 220 in-lb (24.86 N-m) | 140 in-lb (15.82 N-m) | 220 in-lb (24.86 N-m) |
| Terminal Stud Design | One-piece | One-piece | One-piece | One-piece | One-piece | One-piece | One-piece | One-piece |
| Terminal Stud Material | Tin-plated copper | Tin-plated copper | Tin-plated copper | Tin-plated copper | Tin-plated copper | Tin-plated copper | Tin-plated copper | Tin-plated copper |
| Mounting | #10 Screw | #10 Screw | 1/4" (M6) Screw | 1/4" (M6) Screw | 1/4" (M6) Screw | 1/4" (M6) Screw | 1/4" (M6) Screw | 1/4" (M6) Screw |
| Cable Size to Meet Ratings † | 4/0 AWG ‡ (120mm ²) | 4/0 AWG ‡ (120mm ²) | 4/0 AWG ‡ (120mm ²) | 4/0 AWG ‡ (120mm ²) | 4/0 AWG ‡ (120mm ²) | 4/0 AWG ‡ (120mm ²) | 4/0 AWG ‡ (120mm ²) | 4/0 AWG ‡ (120mm ²) |
| Cable Clearance for 4/0 Cables | 1.12" (28.4 mm) | 1.12" (28.4 mm) | 1.10" (27.9 mm) | 1.10" (27.9 mm) | 1.10" (27.9 mm) | 1.10" (27.9 mm) | 1.10" (27.9 mm) | 1.10" (27.9 mm) |
| Switch Positions | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| Battery Inputs | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| Battery Combine Function | - | - | - | - | - | - | - | - |
| Width | 2.825" (72 mm) | 2.825" (72 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 3.850" (98 mm) |
| Height | 2.825" (72 mm) | 2.825" (71 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 3.850" (98 mm) |
| Mounting Centers | 2.176" (55 mm) | 2.176" (55 mm) | 3.00" (76 mm) | 3.00" (76 mm) | 3.00" (76 mm) | 3.00" (76 mm) | 3.00" (76 mm) | 3.00" (76 mm) |
| Weight | 0.62 lb (0.28 kg) | 0.65 lb (0.29 kg) | 0.95 lb (0.43 kg) | 0.95 lb (0.43 kg) | 1.30 lb (0.59 kg) | 1.30 lb (0.59 kg) | 1.15 lb (0.52 kg) | 1.25 lb (0.57 kg) |
| Ignition Protected | UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 |
| Ingress Protected | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 |

* Alternator Field Disconnect (AFD) protects the diodes in the alternator in the event of the switch being switched to the OFF position while the engine is running.

If the AFD is not used to protect the alternator, an LED can be connected to the AFD terminals to indicate when the battery switch is in any position but OFF.

† Per circuit

‡ Reducing cable size will reduce current rating

| Selector 4 Position | | | | | Dual Circuit™ | | Dual Circuit Plus™ | |
|---|---|---|---|---|---|--|---|---|
| Switches isolated battery banks to all loads or combines battery banks to all loads | | | | | Simultaneously switches two isolated battery banks | | Simultaneously switches two isolated battery banks or combines battery banks to all loads | |
| M-Series | e-Series | e-Series | HD-Series | HD-Series | M-Series | e-Series | M-Series | e-Series |
|  |  |  |  |  |  |  |  |  |
| 6007 | 9001e | 9002e | 3002 | 3003 | 6010 | 5510e | 6011 | 5511e |
| - | - | Yes* | - | Yes* | - | - | - | - |
| Yes | Yes | Yes | Yes | Yes | - | - | Yes | Yes |
| 1,500A | 2,000A | 2,000A | 2,750A | 2,750A | 1,000A† | 1,000A† | 1,000A† | 1,000A† |
| 775A | 1,000A | 1,000A | 1,150A | 1,150A | 650A† | 750A† | 650A† | 750A† |
| 500A | 600A | 600A | 700A | 700A | 450A† | 525A† | 450A† | 525A† |
| 300A | 350A | 350A | 500A | 500A | 300A† | 350A† | 300A† | 350A† |
| 32V DC | 32V DC | 32V DC | 32V DC | 32V DC | 32V DC | 32V DC | 32V DC | 32V DC |
| 3/8"-16 (M10) | 3/8"-16 (M10) | 3/8"-16 (M10) | 1/2" (M12) | 1/2" (M12) | 3/8"-16 (M10) | 3/8"-16 (M10) | 3/8"-16 (M10) | 3/8"-16 (M10) |
| 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) | 7/8" (22 mm) |
| 120 in-lb (13.56 N-m) | 140 in-lb (15.82 N-m) | 140 in-lb (15.82 N-m) | 220 in-lb (24.86 N-m) | 220 in-lb (24.86 N-m) | 120 in-lb (13.56 N-m) | 140 in-lb (15.82 N-m) | 120 in-lb (13.56 N-m) | 140 in-lb (15.82 N-m) |
| One-piece | One-piece | One-piece | One-piece | One-piece | One-piece | One-piece | One-piece | One-piece |
| Tin-plated copper | Tin-plated copper | Tin-plated copper | Tin-plated copper | Tin-plated copper | Tin-plated copper | Tin-plated copper | Tin-plated copper | Tin-plated copper |
| #10 Screw | 1/4" (M6) Screw | 1/4" (M6) Screw | 1/4" (M6) Screw | 1/4" (M6) Screw | #10 Screw | 1/4" (M6) Screw | #10 Screw | 1/4" (M6) Screw |
| 4/0 AWG ‡ (120mm²) | 4/0 AWG ‡ (120mm²) | 4/0 AWG ‡ (120mm²) | 4/0 AWG ‡ (120mm²) | 4/0 AWG ‡ (120mm²) | 4/0 AWG ‡ (120mm²) | 4/0 AWG ‡ (120mm²) | 4/0 AWG ‡ (120mm²) | 4/0 AWG ‡ (120mm²) |
| 1.12" (28.4 mm) | 1.10" (27.9 mm) | 1.10" (27.9 mm) | 1.10" (27.9 mm) | 1.10" (27.9 mm) | 1.12" (28.4 mm) | 1.10" (27.9 mm) | 1.12" (28.4 mm) | 1.10" (27.9 mm) |
| 4 | 4 | 4 | 4 | 4 | 2 | 2 | 3 | 3 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Yes | Yes | Yes | Yes | Yes | - | - | Yes | Yes |
| 2.825" (72 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 2.825" (72 mm) | 3.850" (98 mm) | 2.825" (72 mm) | 3.850" (98 mm) |
| 2.825" (72 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 3.850" (98 mm) | 2.825" (72 mm) | 3.850" (98 mm) | 2.825" (72 mm) | 3.850" (98 mm) |
| 2.176" (55 mm) | 3.00" (76 mm) | 3.00" (76 mm) | 3.00" (76 mm) | 3.00" (76 mm) | 2.176" (55 mm) | 3.00" (76 mm) | 2.176" (55 mm) | 3.00" (76 mm) |
| 0.77 lb (0.35 kg) | 1.15 lb (0.52 kg) | 1.15 lb (0.52 kg) | 1.25 lb (0.57 kg) | 1.25 lb (0.57 kg) | 0.80 lb (0.36 kg) | 1.16 lb (0.53 kg) | 0.80 lb (0.36 kg) | 1.16 lb (0.53 kg) |
| UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 | UL 1500 SAE J1171 |
| IP66 | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 | IP66 |

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