









# 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	-	-	-	-	-	-	-	-
I10 Cranking Rating (10 sec.)	1,500A	1,500A	2,000A	2,000A	2,750A	2,750A	2,000A	2,750A
I60 Cranking Rating (1 min.)	775A	775A	1,000A	1,000A	1,325A	1,325A	1,000A	1,150A
I300 Intermittent Rating (5 min.)	500A	500A	600A	600A	900A	900A	600A	700A
Ic Continuous Rating	300A	300A	350A	350A	600A	600A	350A	500A
Vmxo 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 ‡ (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)
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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