



Small Sealed AGM Batteries

The Sealed Battery Specialists

4V BATTERIES

Model	Nominal Voltage (V)	Nominal Capacity (AH)			Weight		Terminal		Dimensions (Inch)				D
		20hr Rate F.V. (1.75V/cell)	10hr Rate F.V. (1.75V/cell)	5hr Rate F.V. (1.75V/cell)	g.	lbs.	Type	Position	L	W	H	TH	
ES4.5-4	4	4.5	4.275	3.825	650	1.43	F2	6	1.89	2.05	3.70	3.94	48
ES9-4	4	9	8.55	7.65	1190	2.62	F2	3	3.98	1.73	3.74	4.02	101

6V BATTERIES

Model	Nominal Voltage (V)	Nominal Capacity (AH)			Weight		Terminal		Dimensions (Inch)				D
		20hr Rate F.V. (1.75V/cell)	10hr Rate F.V. (1.75V/cell)	5hr Rate F.V. (1.75V/cell)	g.	lbs.	Type	Position	L	W	H	TH	
ES1.2-6	6	1.2	1.14	1.00	310	0.68	F1	2	3.82	0.98	2.05	2.24	97
ES3-6	6	3	2.85	2.55	690	1.52	F1	2	5.28	1.34	2.32	2.56	134
ES3-6H	6	3	2.85	2.55	570	1.26	F1	1	2.60	1.30	3.82	4.09	66
ES3.8-6	6	3.8	3.61	3.23	740	1.63	F1	1	2.60	1.30	4.65	4.96	66
ES4-6	6	4.5	4.275	3.825	910	2.00	F1	1	2.76	1.85	3.98	4.21	70
ES7-6	6	7	6.65	5.95	1310	2.89	F1	2	5.94	1.34	3.70	3.94	151
ES8.2-6 S	6	9	8.55	7.65	1680	3.70	F1	8	3.88	2.20	4.65	4.65	98
ES12-6	6	12	11.4	10.2	1990	4.38	F1, F2	2	5.94	1.97	3.70	3.90	151
ES12-6 RND	6	13	12.35	11.05	2180	4.80	WIRE(w#50-63)	7	4.25	2.76	5.51	5.51	108
ES12-6 SQR	6	13	12.35	11.05	2180	4.80	WIRE(w#50-54)	7	4.25	2.76	5.51	5.51	108
ES13-6	6	13	12.35	11.05	2180	4.80	F1-, F2+	18	4.25	2.76	5.51	5.51	108
ES42-6	6	42	39.9	35.7	6180	13.60	F2	14	6.38	3.46	6.42	6.69	162

12V BATTERIES

Model	Nominal Voltage (V)	Nominal Capacity (AH)			Weight		Terminal		Dimensions (Inch)				D
		20hr Rate F.V. (1.75V/cell)	10hr Rate F.V. (1.75V/cell)	5hr Rate F.V. (1.75V/cell)	g.	lbs.	Type	Position	L	W	H	TH	
ES0.8-12	12	0.8	0.76	0.68	370	0.82	WIRE(w#50-10)	15	3.78	0.98	2.44	2.44	96
ES1.2-12	12	1.2	1.14	1.02	600	1.32	F1	4	3.82	1.69	2.09	2.32	97
ES1.9-12	12	2.3	2.185	1.96	1060	2.34	F1	2	7.01	1.34	2.36	2.60	178
ES2-12SLM	12	2	1.9	1.7	760	1.68	F1	12	5.91	0.79	3.54	3.54	150
ES2.3-12V	12	2.1	1.9	1.785	680	1.50	F13	16	7.17	0.91	2.40	2.40	182
ES2.9-12	12	2.9	2.755	2.465	1260	2.77	F1	13	3.11	2.20	3.90	4.21	79
ES3-12	12	3	2.85	2.55	1370	3.02	F1	4	5.28	2.64	2.34	2.58	134
ES3-12R	12	3	2.85	2.55	1160	2.55	F1	2	5.24	1.30	3.82	4.09	133
ES5-12*	12	5	4.75	4.25	1830	4.04	F1, F2	3	3.54	2.76	4.00	4.17	90
ES7-12*	12	7.2	6.84	6.12	2450	5.40	F1, F2	5	5.94	2.56	3.70	4.02	151
ES8-12TE	12	8	7.6	6.8	2678	5.91	F3	5	5.94	2.56	3.70	4.17	151
ES9-12	12	9	8.08	7.23	2740	6.04	F2	5	5.94	2.56	3.70	4.02	151
ES10-12S	12	10	9.5	8.5	3340	7.35	F2	5	5.94	2.56	4.40	4.67	151
ES12-12	12	12	11.4	10.2	3820	8.40	F2	5	5.94	3.86	3.66	3.86	151
ES12-12TE	12	12	11.4	10.2	4270	9.39	F3	5	5.94	3.86	3.66	4.06	151
ES17-12	12	18	17.1	15.3	6280	13.82	F2, F3	17	7.13	2.99	6.57	6.57	181
ES20-12C	12	20	19	17.0	6050	13.34	F3	10	7.13	2.99	6.57	6.57	181
ES20-12CFT	12	20	19	17.0	6080	13.38	F6	11	7.13	2.99	6.57	6.57	181
ES26-12	12	26	24.7	22.1	9330	20.53	F2, F3	17	6.54	6.89	4.92	4.92	166
ES33-12	12	34	32.3	28.9	11110	24.49	F4	9	7.76	5.16	6.26	7.09	197
ES40-12	12	45	42.75	38.25	14110	31.04	F4	10	7.79	6.54	6.73	6.73	198
ES50-12	12	50	47.5	42.5	14240	31.39	F8	11	7.79	6.54	6.73	6.73	198

* Available In Flame Retardant Case.

AGM SPECIFICATIONS

Dimensions (mm)			Maximum Discharge Current (A) for 5 sec.	Maximum Charge Current (A)
W	H	TH		
52	94	100	180	1.35
44	95	102	360	2.70

Dimensions (mm)			Maximum Discharge Current (A) for 5 sec.	Maximum Charge Current (A)
W	H	TH		
25	52	57	48	0.36
34	59	65	120	0.90
33	97	104	120	0.90
33	118	126	152	1.14
47	101	107	180	1.35
34	94	100	280	2.10
56	118	118	360	2.70
50	94	99	240	3.60
70	140	140	520	3.90
70	140	140	520	3.90
70	140	140	520	3.90
88	163	170	1680	12.60

BENEFITS

- Maintenance-Free
- Valve Regulated
- Rugged, Compact Design
- Multiple Applications
- Float or Cycle Use
- Low Self-Discharge
- Lead Calcium Construction
- Absorbed Glass Mat
- Tank Formed Plates

IMPORTANT CHARGING INSTRUCTIONS:

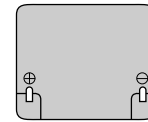
WARRANTY VOID IF OPENED OR IMPROPERLY CHARGED. Constant under or overcharging will damage any battery and shorten its life! Use a good constant potential, voltage-regulated charger. Do not charge in a sealed container.

Charging Voltage for 4V Batteries at 68°F
 Cycle Use: 4.8-5.0V Standby Use: 4.5-4.6V

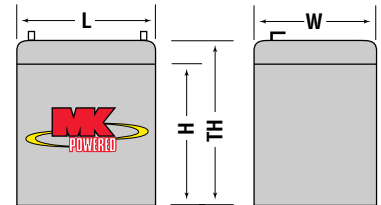
Charging Voltage for 6V Batteries at 68°F
 Cycle Use: 7.2-7.5V Standby Use: 6.75-6.9V

Charging Voltage for 12V Batteries at 68°F
 Cycle Use: 14.4-15.0V Standby Use: 13.5-13.8V

NON-SPILLABLE by DOT (Department of Transportation), ICAO (International Commercial Airline Organization), and IATA (International Airline Transport Association) definitions.



EXTERIOR DIMENSIONS



AMBIENT TEMPERATURE

Charge	Discharge	Storage
0°C (32°F)	-15°C (5°F)	-15°C (5°F)
40°C (104°F)	50°C (122°F)	40°C (104°F)

Dimensions (mm)			Maximum Discharge Current (A) for 5 sec.	Maximum Charge Current (A)
W	H	TH		
25	62	62	28	0.21
43	53	59	48	0.36
34	60	66	92	0.69
20	90	90	72	0.54
23	61	61	20	0.63
56	99	107	116	0.87
67	60	66	120	0.90
33	97	104	112	0.84
70	101	106	200	1.50
65	94	102	288	2.16
65	94	106	320	2.40
65	94	102	340	2.55
65	112	118	400	3.00
98	93	98	480	3.60
98	93	103	480	3.60
76	167	167	720	5.40
76	167	167	800	6.00
76	167	167	851	6.00
175	125	125	1040	7.80
131	159	180	1360	10.20
166	171	171	1800	13.50
166	171	171	1000	15.00

TERMINAL POSITIONS

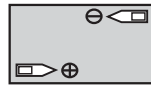


Fig. 1



Fig. 2



Fig. 3

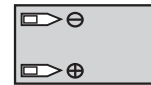


Fig. 4

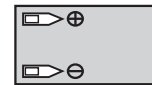


Fig. 5

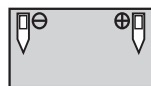


Fig. 6

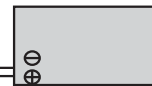


Fig. 7



Fig. 8

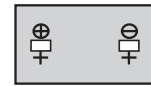


Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13

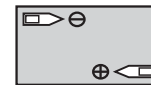


Fig. 14



Fig. 15

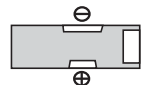


Fig. 16

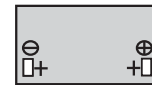


Fig. 17

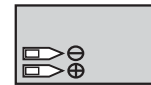
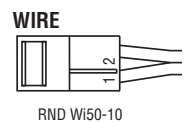
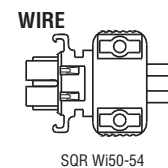
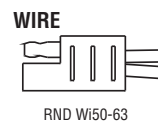
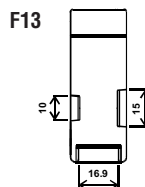
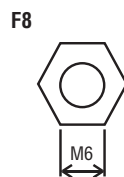
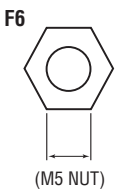
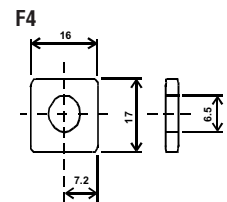
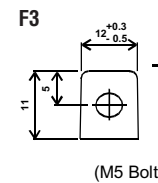
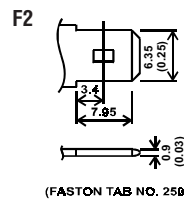
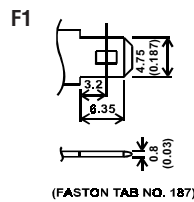
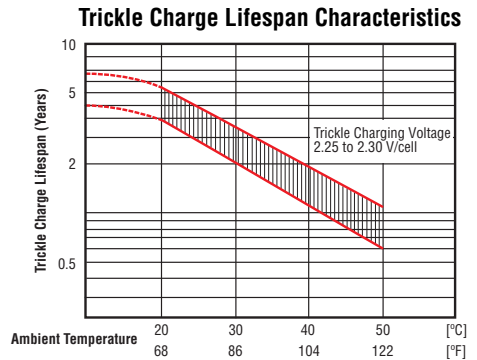
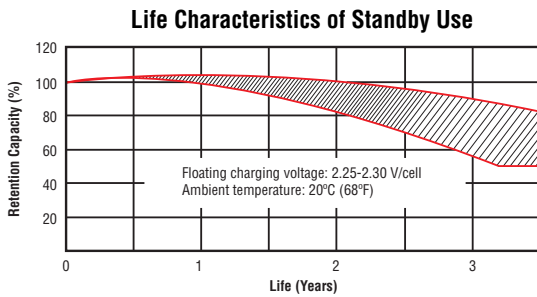
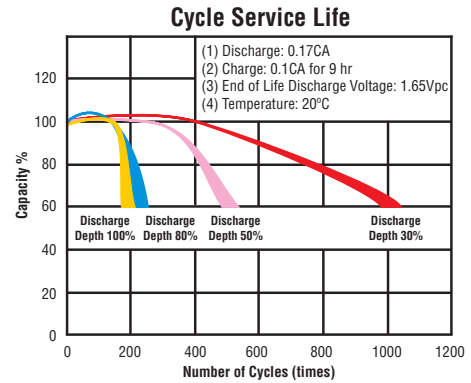
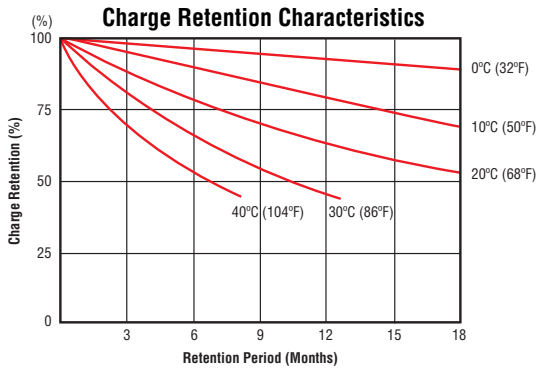
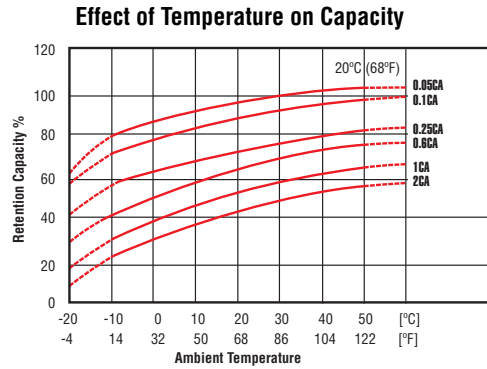
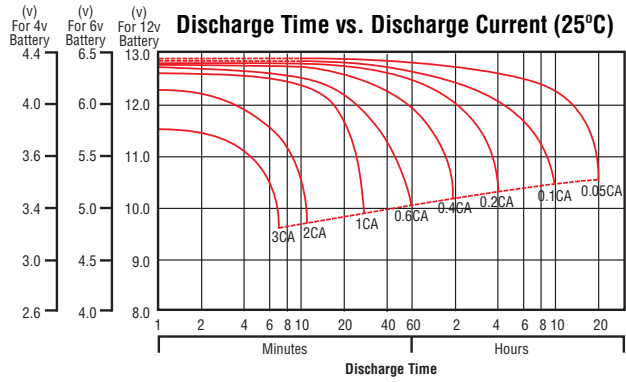


Fig. 18

TERMINAL TYPE MM (INCH)



CHARACTERISTICS OF MK AGM BATTERIES



YOUR PARTNER IN POWER

MK Battery is one of the largest sealed lead acid battery suppliers worldwide due to our total commitment to the following core principles:

Products

MK Battery supplies only the highest quality batteries (gel, AGM and flooded deep cycle) that are specifically designed for our customers' many, varied applications including broadband communications, UPS (uninterruptible power supplies), power wheelchairs, telephony (valve-regulated stationary), solar, marine and electronics.

Service

MK Battery ships fresh inventory fast, often within 24 hours, from a stock of more than 100,000 batteries in multiple distribution centers throughout the world and assists our customers with proper spent battery disposal through EPA permitted smelters. (Please note that violation of hazardous waste disposal laws can place heavy penalties on offenders).

Customer Care

MK Battery is genuinely concerned for our customers' well-being as a long-term partner... not just a supplier. MK Battery listens to our customers and delivers what you want, when you need it.



MK Battery: 1631 South Sinclair Street • Anaheim, California 92806
Toll Free 800-372-9253 • Tel 714-937-1033 • Fax 714-937-0818 • Website: www.mkbattery.com • Email: sales@mkbattery.com