Small Sealed VRLA AGM Batteries

MK Battery supplies the highest quality Sealed VRLA (Valve Regulated Lead Acid) battery line, designed for longer run times and superior cycle life.

FEATURES	BENEFITS
VRLA Technology	Reliable performance and long life
Sealed and 100% Maintenance Free	Will not leak or spill; Approved for air transport
Diverse Product Line	Batteries for deep cycle, standby and high rate applications
UL Certification	Safety tested
ISO 9001 and ISO 14001 Certified	Quality assurance

UL Recognized Component MH19908

ISO 9001 ISO 14001

The Sealed Battery Specialists

AGM SPECIFICATIONS

4V BATTERIES

NOTE: Reference **www.mkbattery.com** for the most current battery specifications.

Model	Nominal Voltage (V)	Nominal Capacity (AH) 20hr Rate F.V. (1.75V/cell)	10hr Rate F.V. (1.75V/cell)	5hr Rate F.V. (1.75V/cell)	Weight g.	Weight lbs.	Terminal Type	Terminal Position	Dimensions (Inch) L	W	H	TH■	Dimensions (mm) L	W	H	TH■	Maximum Discharge Current (A) for 5 sec.	Maximum Charge Current (A)
ES4.5-4	4	4.5	4.28	3.83	630	1.39	F2	3	1.89	2.05	3.70	3.94	48	52	94	100	67.5	1.35
ES9-4	4	9	8.55	7.65	1180	2.60	F2	3	3.98	1.73	3.74	4.02	101	44	95	102	135	2.70

6V BATTERIES

NOTE: Reference **www.mkbattery.com** for the most current battery specifications.

Model	Nominal Voltage (V)	Nominal Capacity (AH) 20hr Rate F.V. (1.75V/cell)	10hr Rate F.V. (1.75V/cell)	5hr Rate F.V. (1.75V/cell)	Weight g.	Weight lbs.	Terminal Type	Terminal Position	Dimensions (Inch) L	W	H	TH■	Dimensions (mm) L	W	H	TH■	Maximum Discharge Current (A) for 5 sec.	Maximum Charge Current (A)
ES1.2-6	6	1.2	1.14	1.02	297	0.65	F1	2	3.82	0.98	2.05	2.24	97	25	52	57	18	0.36
ES3-6	6	3	2.85	2.55	670	1.47	F1	2	5.28	1.34	2.32	2.56	134	34	59	65	45	0.90
ES3-6H	6	2.8	2.66	2.38	570	1.25	F1	1	2.60	1.30	3.82	4.09	66	33	97	104	42	0.84
ES3.8-6	6	3.8	3.61	3.23	730	1.61	F1	1	2.60	1.30	4.65	4.96	66	33	118	126	57	1.14
ES4-6	6	4.5	4.28	3.83	820	1.80	F1	1	2.76	1.85	4.02	4.17	70	47	102	106	67.5	1.35
ES4-6SA**	6	4	3.80	3.40	745	1.64	F1	1	2.76	1.85	4.02	4.17	70	47	102	106	60	1.20
ES7-6	6	7	6.65	5.95	1200	2.64	F1	2	5.94	1.34	3.70	3.94	151	34	94	100	105	2.10
ES8.2-6S	6	9	8.55	7.65	1700	3.74	F1	8	3.88	2.20	4.65	4.65	99	56	118	118	135	2.70
ES12-6	6	12	11.40	10.20	1840	4.05	F1, F2	2	5.94	1.97	3.70	3.90	151	50	94	99	180	3.60
ES13-6	6	13	12.35	11.05	2240	4.93	F1-, F2+	18	4.25	2.76	5.51	5.51	108	70	140	140	156	3.90
ES42-6	6	42	39.90	35.70	6500	14.30	F2	14	6.38	3.46	6.42	6.69	162	88	163	170	504	12.60

12V BATTERIES

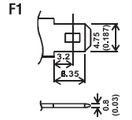
NOTE: Reference **www.mkbattery.com** for the most current battery specifications.

Model	Nominal Voltage (V)	Nominal Capacity (AH) 20hr Rate F.V. (1.75V/cell)	10hr Rate F.V. (1.75V/cell)	5hr Rate F.V. (1.75V/cell)	Weight g.	Weight lbs.	Terminal Type	Terminal Position	Dimensions (Inch) L	W	H	TH■	Dimensions (mm) L	W	H	TH■	Maximum Discharge Current (A) for 5 sec.	Maximum Charge Current (A)
ES0.8-12	12	0.7	0.67	0.60	364	0.80	WIRE	15	3.78	0.98	2.44	2.44	96	25	62	62	10.5	0.21
ES1.2-12	12	1.2	1.14	1.02	564	1.24	F1	4	3.82	1.69	2.09	2.32	97	43	53	59	18	0.36
ES1.9-12	12	2.3	2.19	1.96	1040	2.29	F1	2	7.01	1.34	2.36	2.60	178	34	60	66	34.5	0.69
ES2-12SLM	12	2	1.90	1.70	728	1.60	F1	12	5.91	0.79	3.54	3.54	150	20	90	90	30	0.60
ES2.3-12V	12	2.1	2.00	1.79	714	1.57	F13	16	7.17	0.91	2.40	2.40	182	23	61	61	10	0.63
ES2.9-12	12	2.9	2.76	2.47	1190	2.62	F1	13	3.11	2.20	3.90	4.21	79	56	99	107	116	0.87
ES3-12	12	3	2.85	2.55	1300	2.86	F1	4	5.28	2.64	2.34	2.58	134	67	60	66	45	0.90
ES3-12R	12	3	2.80	2.66	1120	2.46	F1	2	5.24	1.30	3.82	4.09	133	33	97	104	42	0.84
ES5-12*	12	5	4.75	4.25	1900	4.18	F1, F2	3	3.54	2.76	3.98	4.21	90	70	101	107	19	1.50
ES5-12SA**	12	5	4.75	4.25	1620	3.56	F1	3	3.54	2.76	3.98	4.21	90	70	101	107	75	1.50
ES7-12*	12	7.2	6.84	6.12	2400	5.28	F1, F2	5	5.94	2.56	3.70	4.02	151	65	94	102	108	2.16
ES7-12SA**	12	7	6.65	5.95	2200	4.84	F1	5	5.94	2.56	3.70	4.02	151	65	94	102	105	2.10
ES9-12*	12	9	8.55	7.65	2700	5.94	F2	5	5.94	2.56	3.70	4.02	151	65	94	102	135	2.70
ES9-12TE	12	9	8.55	7.65	2700	5.94	F3	5	5.94	2.56	3.70	4.02	151	65	94	106	180	2.70
ES10-12S	12	10	9.50	8.50	3290	7.24	F2	5	5.94	2.56	4.41	4.67	151	65	112	119	150	3.00
ES12-12	12	12	11.40	10.20	4020	8.84	F2	5	5.94	3.86	3.66	3.86	151	98	93	98	180	3.60
ES12-12SA**	12	12	11.40	10.20	3750	8.25	F2	5	5.94	3.86	3.66	3.86	151	98	93	98	180	3.60
ES12-12TE	12	12	11.40	10.20	4020	8.84	F3	5	5.94	3.86	3.66	4.09	151	98	93	104	240	3.60
ES14-12	12	14	13.30	11.90	4400	9.68	F2	5	5.94	3.86	3.74	3.94	151	98	95	100	210	4.20
ES17-12	12	18	17.10	15.30	5860	12.89	F2, F3	17	7.13	2.99	6.57	6.57	181	76	167	167	270	5.40
ES20-12C	12	20	19.00	17.00	5950	13.09	F3	10	7.13	2.99	6.57	6.57	181	76	167	167	300	6.00
ES20-12CFT	12	20	19.00	17.00	5980	13.09	F6	10	7.13	2.99	6.57	6.57	181	76	167	167	300	6.00
ES22-12	12	22	20.90	18.70	6900	15.18	F8	11	7.13	2.99	6.57	6.57	181	76	167	167	330	6.60
ES26-12	12	26	24.70	22.10	9300	20.46	F2, F3	17	6.54	6.89	4.92	4.92	166	175	125	125	390	7.80
ES26-12SA**	12	26	24.70	22.10	8000	17.60	F3	17	6.54	6.89	4.92	4.92	166	175	125	125	390	7.80
ES33-12	12	35	33.25	29.75	10500	23.10	F4	9	7.72	5.12	6.22	7.09	196	130	158	180	525	10.50
ES40-12	12	45	42.75	38.25	14500	31.90	F4	10	7.84	6.54	6.73	6.73	199	166	171	171	540	13.50
ES50-12	12	50	47.50	42.50	15100	33.20	F8	11	7.83	6.54	6.73	6.73	199	166	171	171	600	15.00

★ Available In Flame Retardant Case. ★★ For Light-Duty or Standby Applications. ■ Total Height Includes Terminals.

TERMINAL TYPE MM (INCH)

F1



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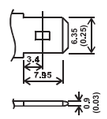

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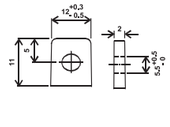

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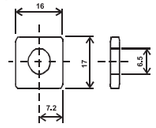

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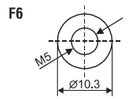
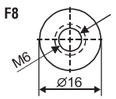


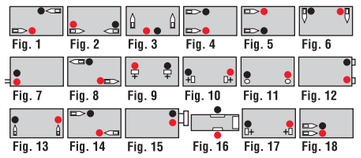
(M5 Bolt)

F8



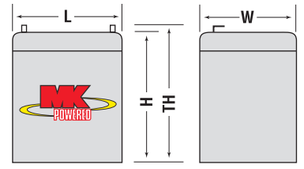
(M6 Bolt)

TERMINAL POSITIONS



■ Total Height Includes Terminals.

EXTERIOR DIMENSIONS



CHARGING

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 68ºF
Cycle Use: 4.8-5.0V Standby Use: 4.5-4.6V

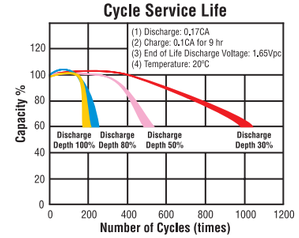
Charging Voltage for 6V Batteries at 68ºF
Cycle Use: 7.2-7.5V Standby Use: 6.75-6.9V

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

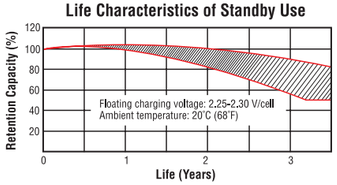
NON-SPILLABLE by DOT (Department of Transportation), ICAO (International Commercial Airline Organization), and IATA (International Airline Transport Association) definitions.

MK AGM PERFORMANCE

Cycle Service Life

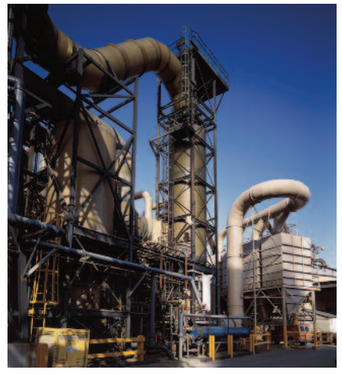


Life Characteristics of Standby Use



RECYCLING

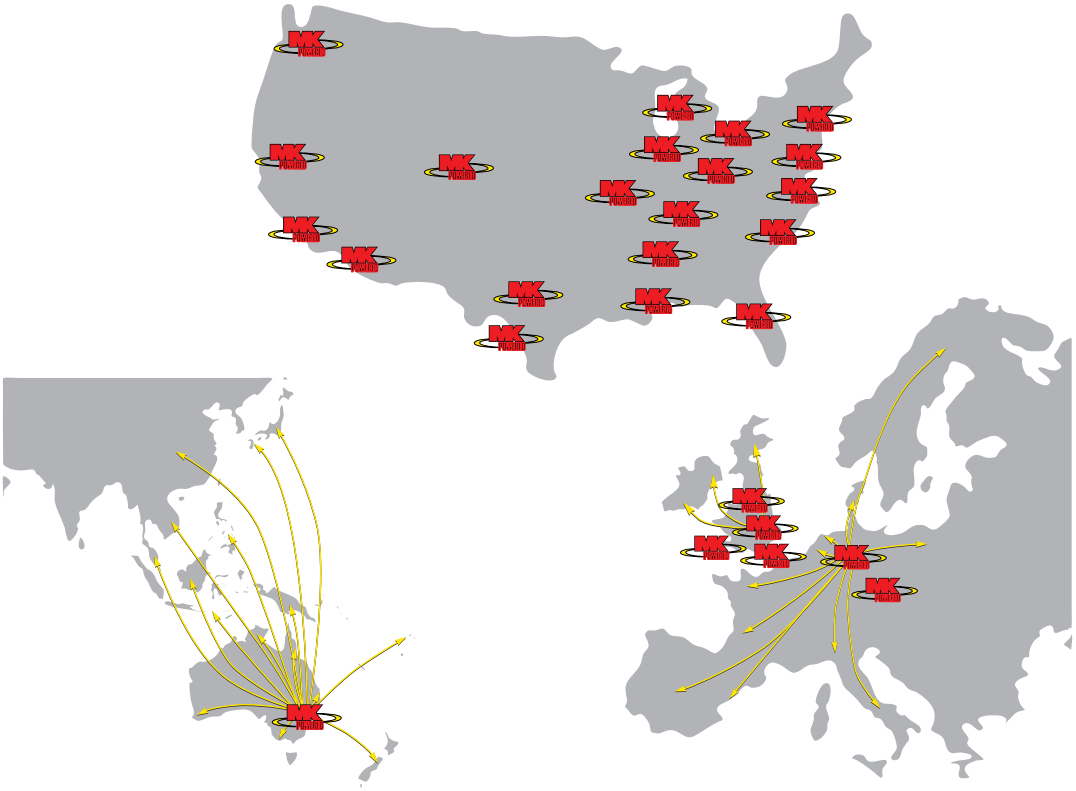
EPA approved spent battery disposal and recycling



Battery disposal can be a costly and time consuming process. MK Battery recognizes that regulatory concerns impact the life chain of a battery and that facilities are vulnerable to some liability if batteries are not disposed of correctly and legally. All spent batteries picked up by MK trucks are delivered to E.P.A. – permitted smelters and licensed recyclers exclusively. Spent battery pickup and recycling is a FREE SERVICE to establishments located within our route delivery service areas.

Delivering Quality, Value & Service

For over 30 years, MK Battery has stood for quality, value and service.
Our global distribution network ensures fresh local inventory delivered on time and when you need it.
Depend on MK Battery.



YOUR PARTNER IN POWER

Established in 1983, MK Battery is one of the largest Sealed VRLA (Valve Regulated Lead Acid) battery suppliers worldwide due to our total commitment to the following core principles:

Products

MK Battery supplies only the highest quality deep-cycle Sealed VRLA Gel and AGM batteries, specifically designed for our customers' many, varied applications including floor cleaning equipment, power wheelchairs, solar energy storage, remote power and marine uses.

Service

MK Battery ships and delivers fresh inventory fast (often within 24 hours) from a stock of more than 100,000 batteries in multiple distribution centers located throughout the U.S., Europe, Australia and other International locations, and assists our customers with proper spent battery collection and disposal through EPA-approved smelters and recyclers. (Please note that violations of hazardous waste disposal laws can place heavy penalties on offenders).

Customer Care

MK Battery is genuinely sensitive to the needs of our customers as our long-term business partners, and thus we always strive to deliver products, services and value that provide tangible, cost-effective solutions in a timely and efficient fashion.

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