



# Small Sealed VRLA AGM Batteries



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

## FEATURES

- VRLA Technology
- Sealed and 100% Maintenance Free
- Diverse Product Line
- UL Certification
- ISO 9001 and ISO 14001 Certified

## BENEFITS

- Reliable performance and long life
- Will not leak or spill
- Batteries for deep cycle, standby and high rate applications
- Safety tested
- Quality assurance

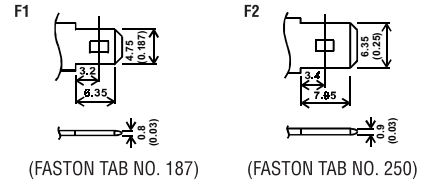


# 4V BATTERIES

NOTE: Reference [www.mkbattery.com](http://www.mkbattery.com) for the most current battery specifications.

Description	Nominal Ah Capacity	Weight	Dimensions – Inches (mm)				Terminal	
			L	W	H	TH <sup>■</sup>	Type	Position
Model	20hr Rate F.V. (1.75V/cell)	lbs. (g.)						
ES4.5-4	4.5	1.43 (650)	1.89 (48)	2.05 (52)	3.70 (94)	3.94 (100)	F2	6
ES9-4	9	2.62 (1190)	3.98 (101)	1.73 (44)	3.74 (95)	4.02 (102)	F2	3

# TERMINAL TYPE MM (INCH)

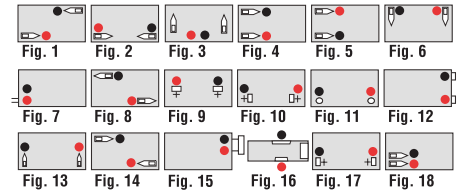


# 6V BATTERIES

NOTE: Reference [www.mkbattery.com](http://www.mkbattery.com) for the most current battery specifications.

Description	Nominal Ah Capacity	Weight	Dimensions – Inches (mm)				Terminal	
			L	W	H	TH <sup>■</sup>	Type	Position
Model	20hr Rate F.V. (1.75V/cell)	lbs. (g.)						
ES1.2-6	1.2	0.68 (310)	3.82 (97)	0.98 (25)	2.05 (52)	2.24 (57)	F1	2
ES3-6	3	1.54 (700)	5.28 (134)	1.34 (34)	2.32 (59)	2.56 (65)	F1	2
ES3-6H	3.0	1.26 (570)	2.60 (66)	1.30 (33)	3.82 (97)	4.09 (104)	F1	1
ES3.8-6	3.8	1.56 (710)	2.60 (66)	1.30 (33)	4.65 (118)	4.96 (126)	F1	1
ES4-6	4.5	2.00 (910)	2.76 (70)	1.85 (47)	3.98 (101)	4.13 (105)	F1	1
ES7-6	7	2.64 (1200)	5.94 (151)	1.34 (34)	3.70 (94)	3.94 (100)	F1	2
ES8.2-6S	9	3.74 (1700)	3.88 (98.5)	2.20 (56)	4.65 (118)	4.65 (118)	F1	8
ES12-6	12	4.18 (1900)	5.94 (151)	1.97 (50)	3.70 (94)	3.90 (99)	F1, F2	2
ES13-6	13	4.84 (2200)	4.25 (108)	2.76 (70)	5.51 (140)	5.51 (140)	F1-, F2+	18
ES42-6	42	14.3 (6500)	6.38 (162)	3.46 (88)	6.42 (163)	6.69 (170)	F2	14

# TERMINAL POSITIONS



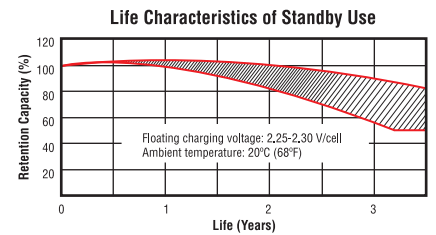
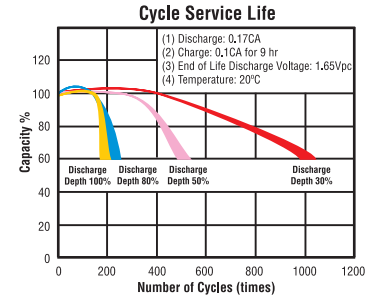
■ Total Height Includes Terminals.

# 12V BATTERIES

NOTE: Reference [www.mkbattery.com](http://www.mkbattery.com) for the most current battery specifications.

Description	Nominal Ah Capacity	Weight	Dimensions – Inches (mm)				Terminal	
			L	W	H	TH <sup>■</sup>	Type	Position
Model	20hr Rate F.V. (1.75V/cell)	lbs. (g.)						
ES0.8-12	0.8	0.88 (400)	3.78 (96)	0.98 (25)	2.44 (62)	2.44 (62)	WIRE	15
ES1.2-12	1.2	1.27 (575)	3.82 (97)	1.69 (43)	2.09 (53)	2.32 (59)	F1	4
ES1.9-12	2.3	2.31 (1050)	7.01 (178)	1.34 (34)	2.36 (60)	2.60 (66)	F1	2
ES2-12SLM	2	1.63 (741)	5.91 (150)	0.79 (20)	3.54 (90)	3.54 (90)	F1	12
ES2.3-12V	2.1	1.57 (714)	7.17 (182)	0.91 (23)	2.40 (61)	2.40 (61)	F13	16
ES2.9-12	2.9	2.66 (1210)	3.11 (79)	2.20 (56)	3.90 (99)	4.21 (107)	F1	13
ES3-12	3	2.86 (1300)	5.28 (134)	2.64 (67)	2.34 (60)	2.58 (66)	F1	4
ES3-12R	3	2.55 (1160)	5.24 (133)	1.30 (33)	3.82 (97)	4.09 (104)	F1	2
ES5-12*	5	4.18 (1900)	3.54 (90)	2.76 (70)	4.00 (101)	4.21 (107)	F1, F2	3
ES7-12*	7.2	5.28 (2400)	5.94 (151)	2.56 (65)	3.70 (94)	4.02 (102)	F1, F2	5
ES9-12	9	5.94 (2700)	5.94 (151)	2.56 (65)	3.70 (94)	4.02 (102)	F2	5
ES9-12TE	9	5.94 (2700)	5.94 (151)	2.56 (65)	3.70 (94)	4.17 (106)	F3	5
ES10-12S	10	7.26 (3300)	5.94 (151)	2.56 (65)	4.40 (112)	4.67 (118)	F2	5
ES12-12	12	9.02 (4100)	5.94 (151)	3.86 (98)	3.66 (93)	3.86 (98)	F2	5
ES12-12TE	12	8.58 (3900)	5.94 (151)	3.86 (98)	3.66 (93)	4.06 (103)	F3	5
ES14-12	14	9.42 (4280)	5.94 (151)	3.86 (98)	3.66 (93)	3.86 (98)	F2	5
ES17-12	18	13.20 (6000)	7.13 (181)	2.99 (76)	6.57 (167)	6.57 (167)	F2, F3	17
ES20-12C	20	13.42 (6100)	7.13 (181)	2.99 (76)	6.57 (167)	6.57 (167)	F3	10
ES20-12CFT	20	13.42 (6100)	7.13 (181)	2.99 (76)	6.57 (167)	6.57 (167)	F6	11
ES26-12	26	20.46 (9300)	6.54 (166)	6.89 (175)	4.92 (125)	4.92 (125)	F2, F3	17
ES33-12	35	23.10 (10500)	7.76 (197)	5.16 (131)	6.26 (159)	7.09 (180)	F4	9
ES40-12	45	31.90 (14500)	7.79 (198)	6.54 (166)	6.73 (171)	6.73 (171)	F4	10
ES50-12	50	31.50 (14300)	7.79 (198)	6.54 (166)	6.73 (171)	6.73 (171)	F8	11

# MK AGM PERFORMANCE



**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.

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\* Available In Flame Retardant Case. ■ Total Height Includes Terminals.