



**The Sealed Battery Specialists**



## 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 12V Batteries at 20°C

Cycle Use: 14.4-15.0V  
Standby Use: 13.5-13.8V

#### Charging Voltage for 4V Batteries at 20°C

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

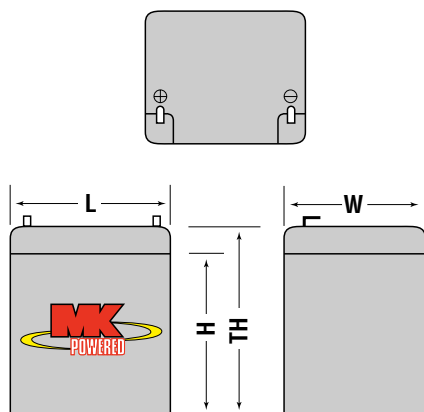
#### Charging Voltage for 6V Batteries at 20°C

Cycle Use: 7.2-7.5V  
Standby Use: 6.75-6.9V

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

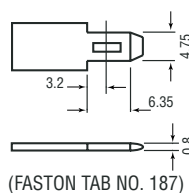
Model	Nominal Capacity (AH)				Weight g.
	Nominal Voltage (V)	20hr rate F.V. (1.75V/cell)	10hr rate F.V. (1.75V/cell)	5hr rate F.V. (1.75V/cell)	
ES4.5-4	4	4.5	4.5	3.825	652
ES9-4	4	9	9	7.65	1187
ES1.2-6	6	1.2	1.2	1.02	308
ES3-6	6	3	3	2.55	692
ES4-6	6	4.5	4.5	3.825	908
ES7-6	6	7	7	5.95	1312
ES8.2-6S	6	9	9	7.65	1576
ES12-6	6	12	12	10.2	2254
ES12-6S	6	13	13	11.05	2179
ES12-6RND	6	13	13	11.05	2208
ES12-6SQR	6	13	13	11.05	2208
ES1.2-12	12	1.2	1.2	1.02	596
ES1.9-12	12	2.3	2.3	1.955	1060
ES3-12	12	3	3	2.55	1400
ES4-12	12	4.5	4.5	3.825	1823
ES5-12	12	5	5	4.25	1830
ES7-12	12	7.2	7.2	6.12	2678
ES12-12	12	12	12	10.2	4270
ES17-12	12	18	18	15.3	6283
ES26-12	12	26	26	22.1	9528
ES28-12	12	28	28	23.8	9794
ES30-12	12	30	30	25.5	9675
ES33-12	12	34	34	28.9	11107
ES40-12	12	45	45	38.25	14109

## EXTERIOR DIMENSIONS

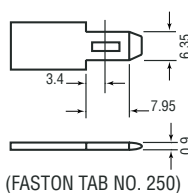


## TERMINAL TYPE mm

F1



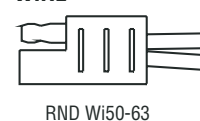
F2



F5

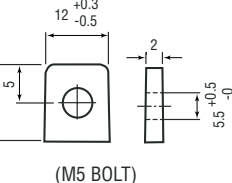


WIRE

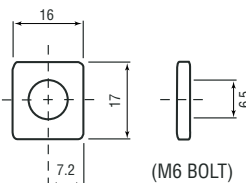


RND W150-63

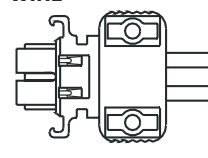
F3



F4



WIRE



SQR W150-54

# AGM SPECIFICATIONS

Terminal		Dimensions				Maximum Discharge Current (A) For 5 sec.	Ambient Temperature			Maximum Charge Current (A)
Type	Standard Position	L	W	H	TH		Charge	Discharge	Storage	
F2	6	48.5	52.5	93.7	100	22.5				1.35
F2	3	101	44	95	102	45				2.7
F1	2	97	25	51.5	57	6				0.36
F1	2	134	34	60	66	15				0.9
F1	1	70	47	101	107	22.5				1.35
F1	2	151	34	94	100	35				2.1
F1	8	97	56	118	118	45				2.7
F1	2	151	50	94	99	60				3.6
F1-, F2+	4	108	70	140	140	65				3.9
WIRE(wi50-63)	7	108	70	140	140	25				3.9
WIRE(wi50-54)	7	108	70	140	140	25				3.9
F1	4	97	43	53	59	6	0°C ~ 40°C	-20°C ~ 50°C	-20°C ~ 40°C	0.36
F1	2	178	34	60	66	11.5				0.69
F1	4	134	67	59.5	65.5	15				0.90
F1	3	90	70	101	107	22.5				1.35
F1	3	90	70	102	109	25				1.5
F1, F2	5	151	65	94	102	36				2.16
F2	5	151	99	95	100	60				3.6
F3	10	181	76	167	167	90				5.4
F3	10	166	175	125	125	130				7.8
F3	10	166	175	125	125	140				8.4
F5	11	166	125	176	176	150				9.0
F4	9	197	131	156	180	170				10.2
F4	10	198	166	171	171	225				13.5

## TERMINAL POSITION



Fig. 3



Fig. 6



Fig. 9

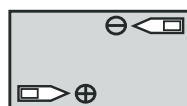


Fig. 1

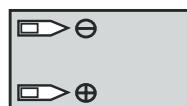


Fig. 4



Fig. 7



Fig. 10



Fig. 2

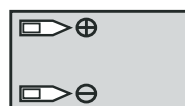


Fig. 5

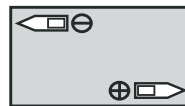


Fig. 8



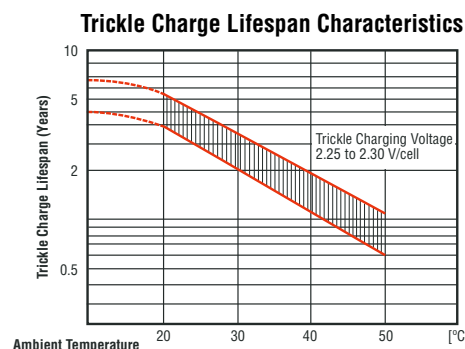
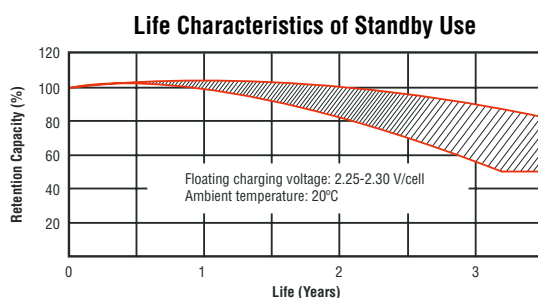
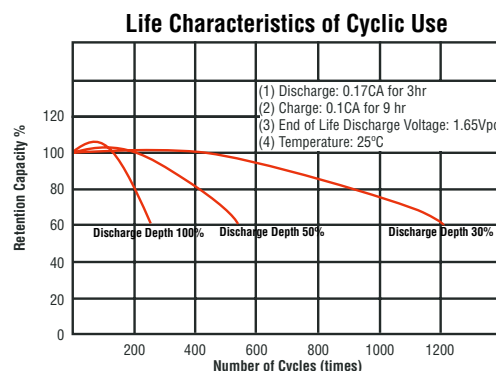
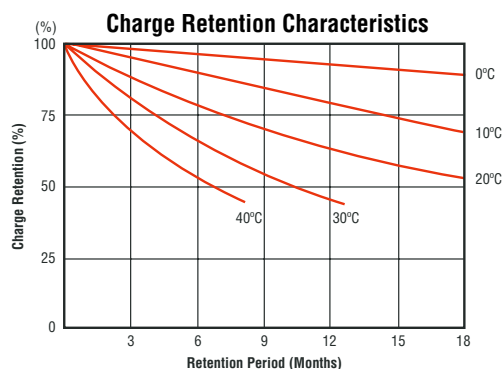
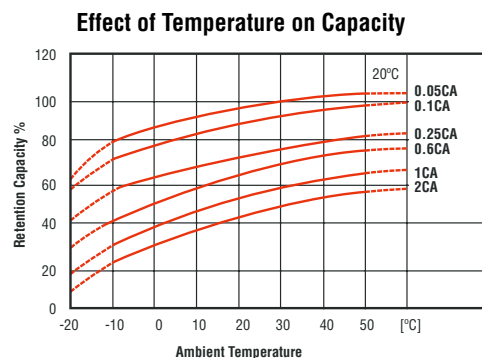
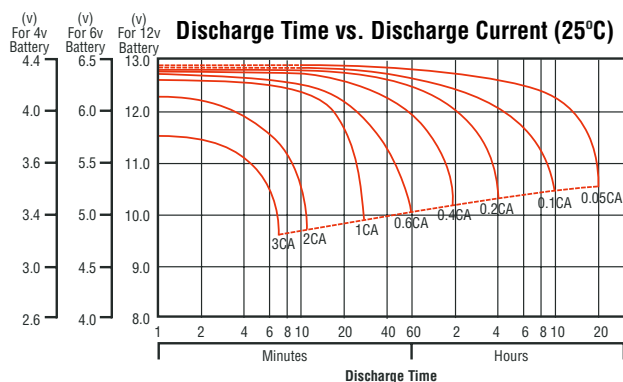
Fig. 11



ISO 9001  
ISO 14001



# CHARACTERISTICS OF MK AGM BATTERIES



## YOUR PARTNER IN POWER

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

MK Battery manufactures and distributes 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.

MK Battery ships fresh inventory fast, often within 24 hours from a stock of more than 200,000 batteries worldwide. MK Battery International will assist our customers with proper scrap battery disposal through battery recycling specialists. These specialists comply with current legislative requirements with regards to Waste Management Regulations, Duty of Care and Carriage of Dangerous Goods Legislation. (Please note that violation of hazardous waste disposal laws place heavy penalties on offenders).

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.

Products  
Service  
Customer Care



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