MK POWERED

The Sealed Battery Specialists

Advanced American Technology and the use of the most modern computer-aided design and manufacturing techniques combine to make MK Battery's Sealed AGM Batteries the standard by which all other AGM batteries are judged.

AGM SPECIFICATIONS

General Specifications							Minute Discharged at*						Discharge Amps to 1.75VPC at 80ºF (27ºC)												Ampere Hour Capacity*						Weight	Dimensions – In (mm)		
Model	Foot Notes	Terminal Standard	Terminal Option	CCA @ 0º F	CA @ 32º F	Res. Capacity @ 80º F	75 Amps	50 Amps	25 Amps	15 Amps	8 Amps	5 Amps	5 Min.	10 Min.	15 Min.	20 Min.	30 Min.	60 Min.	90 Min.	3 Hr	5 Hr	10 Hr	20 Hr	24 Hr	48 Hr	100 Hr	100 Hr Rate	20 Hr Rate	10 Hr Rate	5 Hr Rate	3 Hr Rate	1 Hr Rate	Approx. Lbs. (Kgs.)	L	W	H■
8AU1	HP	T873	N/A	240	335	48	10	20	54	97	200	340	110	75	60	50	39	23	16	8.83	5.52	3.1	1.63	1.37	0.74	0.37	37	32.5	31	27.6	26.5	23	24 (10.9)	8 5/16 (211)	5 1/8 (130)	7 1/4 (184)
8A22NF	PV	T881	N/A	280	386	90	22	40	102	180	365	620	160	120	95	80	62	38	28	15	9.3	5.1	2.75	2.32	1.25	0.63	63	55	51.1	46.5	45	38	38.5 (17.5)	9 3/8 (238)	5 1/2 (140)	9 1/4 (235)
8A24	HP	T881	T835	470	660	140	35	60	150	280	550	900	220	165	130	110	85	50.5	36	21.67	14.1	7	3.95	3.33	1.8	0.91	91	79	70	70.3	65	50.5	53 (24)	10 1/4 (260)	6 3/4 (171)	9 7/8 (251)
8A27	HP	T835	T876	580	810	175	43	75	185	330	640	1080	270	200	153	130	98	59	44	25	15.6	8.58	4.6	3.88	2.1	1.06	106	92	85.8	78	75.5	59	63 (28.6)	12 3/4 (324)	6 7/8 (175)	8 5/8 (220)
8A31	HP	T835	T876	650	850	190	53	87.4	200	348	706	1265	305	226	174	147	114	68.2	49	27.18	17.2	9.5	5.25	4.41	2.31	1.16	116.2	105	95	86	81.5	68.2	69 (31.3)	12 15/16 (329)	6 3/4 (171)	9 1/16 (231)
8A31DT	HPT	SAE/STUD	N/A	650	850	190	53	87.4	200	348	706	1265	305	226	174	147	114	68.2	49	27.18	17.2	9.5	5.25	4.41	2.31	1.16	116.2	105	95	86	81.5	68.2	69 (31.3)	12 15/16 (329)	6 3/4 (171)	9 3/8 (238)
8A4D	HP	SAE	T903/T975	1110	1420	380	106	180	413	745	1512	2507	508	408	318	266	200	115	85	50	32.7	17.8	9.91	8.38	4.41	2.16	216	200	178	163.5	150	115	129 (58.5)	20 3/4 (527)	8 1/2 (216)	10 (254)
8A8D	HP	SAE	T903/T975	1350	1725	480	138	230	517	953	1874	3040	600	475	386	325	256	151	106	60.7	39.4	22	12.25	10.26	5.23	2.57	257	245	220	197	182.1	151.1	158 (71.7)	20 3/4 (527)	11 (279)	10 (254)
▲8A34	P	T835	N/A	386	543	115	29	49	123	230	452	740	181	136	107	90	70	41.5	29.6	17.8	11.6	5.8	3.25	2.7	1.5	0.75	75	65	58	58	53.4	41.5	43 (19.3)	10 3/16 (259)	6 7/8 (169)	7 (178)
▲8AGC2	PV	T881	N/A	649	944	383	102	172	416	755	1510	2442	361	278	233	200	167	110	84.3	50.3	32.6	18.6	10	8.4	4.3	2.2	220	200	186.5	163.2	151	110	68 (31)	10 1/4 (260)	7 1/8 (181)	10 7/8 (276)

▲ New Product - Preliminary Specifications

■ Height based on standard terminal

MK Battery Features

- 100% Maintenance Free
- Proprietary Plate Formation Process
- Exclusive Ultra Premium Sealing Valve
- Computer-Cast Power Path Grids
- Exclusive Weld Seals
- Over 250 Quality Checks
- Dual-Purpose Design Yields Deep Cycle Service and High Rate Performance

BENEFITS

- Completely maintenance free. Sealed construction eliminates periodic watering, corrosive fumes and spills.
- Less than 2% per month stand loss means little deterioration during transport and storage.
- Transports easily and safely by air.
- Quality construction ensures reliable service and support.

APPLICATIONS

- Water Pumping
- Residential
- Communications
- Cathodic Protection
- Remote Monitoring
- Refrigeration
- Lighting
- Aids to Navigation
- Wind Generation
- Power Wheelchairs
- RV
- Golf Cart
- Solar

SPECIFICATIONS

Voltage	6 & 12 volts nominal
Plate Alloy	Lead Calcium
Posts	Forged terminals and bushings
Container/Cover	Polypropylene
Charge Voltage @68ºF (20ºC)	Cycle 2.40 to 2.43; Float 2.25 to 2.30 v.p.c.
Vent	Self sealing (2PSI operation)
Resistance	3.0 Milliohms (Full Charge)
Operating Temperature	Fully Charged Range: -40ºF (-40ºC) to +140ºF (60ºC)

Charging Information & Chart Footnotes

*AMPERE HOUR CAPACITY IS A NOMINAL RATING.
ALL RATINGS ARE AFTER 15 CYCLES AND CONFORM TO B.C.I. SPECIFICATIONS.

BATTERY VOLTAGE: All batteries are 12 Volt excluding MODEL 8AGC2, which is 6 Volt.

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. **For 12-volt batteries, charge to at least 14.4 volts but no more than 14.6 volts at 68ºF (20ºC). For 6-volt batteries, charge to at least 7.2 volts but no more than 7.3 volts at 68ºF (20ºC).** Do not charge in a sealed container.

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

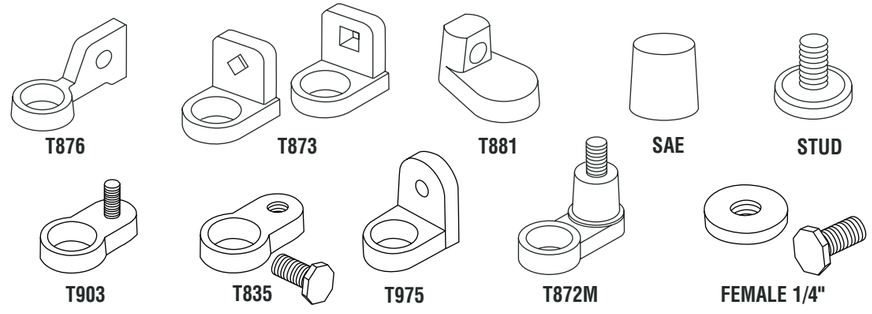
FOOTNOTES:
H - Includes handles
P - Polypropylene container and cover
Q - Combination terminals, offset with 5/16" stainless stud and wing nuts
T - Dual top terminals w/SAE posts & stainless steel 3/8" stud and wing nuts
V - Combination terminals, offset post with horizontal hole, 5/16" bolt and hex nut

LEAD RETURN Pb RECYCLE

UL Recognized Component
MH17218

ISO 9001

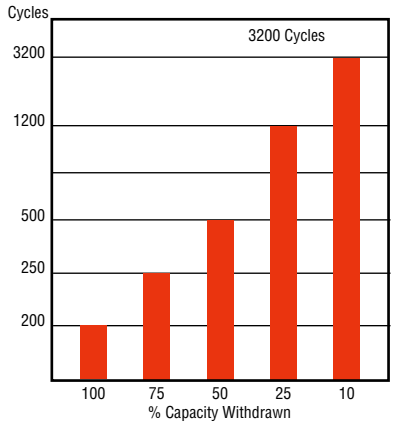
TERMINAL INFORMATION



Pb

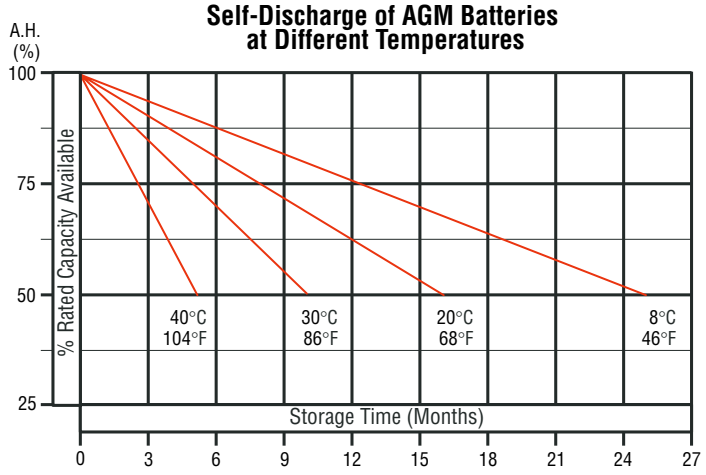
CHARACTERISTICS OF MK AGM BATTERIES

Cycling Ability

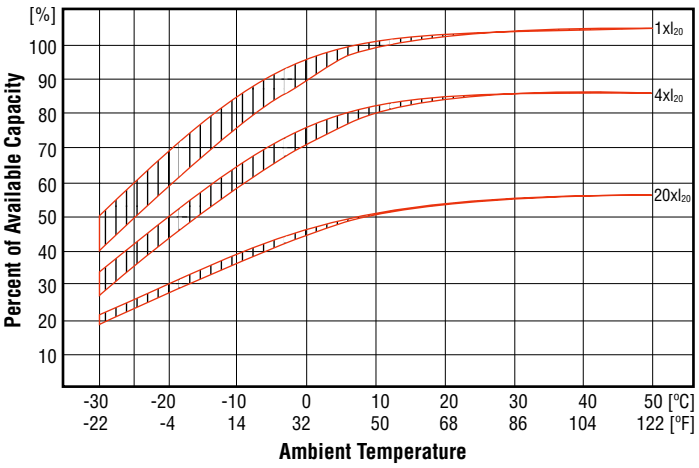


Number of cycles vs. depth of discharge
at+20°C (68°F)
discharge with 20 hour rate

Self-Discharge of AGM Batteries at Different Temperatures



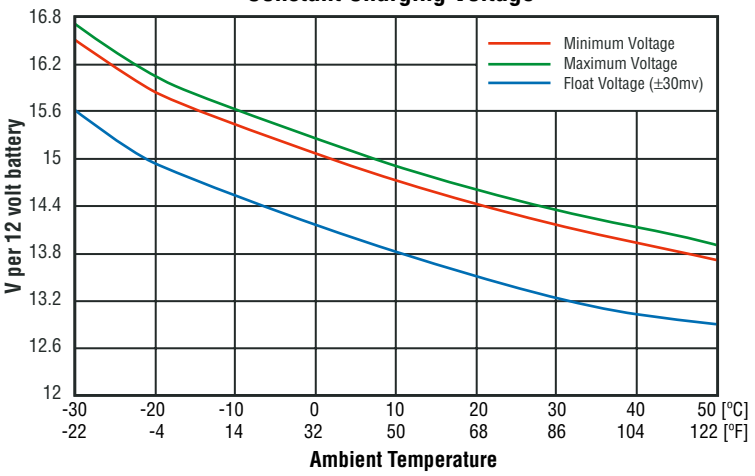
Capacity vs Operating Temperature



Capacity vs Operating Temperatures

Shown are the changes in capacity for wider ambient temperature range, giving the available capacity, as a percentage of the rated capacity, at different ambient temperatures, for 3 different load examples, with uninterrupted discharge to the appropriate discharge cut-off voltage. The values for the upper edge of the curve were obtained from charging at an ambient temperature of ±20°C with a voltage limit of 2.4V/cell. For the lower edge, charging was carried out at the specified ambient temperature. The curves show the behavior of the battery after a number of cycles.

Constant Charging Voltage



Constant Charging Voltage

Shown is the constant charging voltage in relation to the ambient temperature. The bandwidth shows a tolerance of ± 30mV/cell. This constant voltage is suitable for continuous charging and cyclic operation. In a parallel stand-by mode it always keeps the battery in a fully charged state; in a cyclic mode, it provides for rapid recharging and high cyclic performance.