



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

# GEL SPECIFICATIONS

General Specifications							Minute Discharged at*					Discharge Amps to 1.75VPC at 80°F										Ampere Hour Capacity*				Weight	Dimensions - In (mm)							
Model	Foot Notes	Terminal Std.	Terminal Option	CCA @ 0°F	CA @ 32°F	Res. Capacity @ 80°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	8 Hr	20 Hr	24 Hr	48 Hr	100 Hr	20 Hr Rate	5 hr Rate	3 hr Rate	1 hr Rate	Approx. Wt Lbs. (Kgs.)	L	W	H
8GU1	P	T874	N/A	215	310	44	8	16	47	90	190	325	90	67	53	45	35	21	15	8.50	5.30	3.56	1.58	1.33	0.73	0.36	31.6	26.5	25.5	21	24.2 (11.0)	7 3/4 (197)	5 1/8 (130)	7 1/4 (184)
8GU1H	HP	T874	N/A	215	310	44	8	16	47	90	190	325	90	67	53	45	35	21	15	8.50	5.30	3.56	1.58	1.33	0.73	0.36	31.6	26.5	25.5	21	24.2 (11.0)	8 5/16 (211)	5 1/8 (130)	7 1/4 (184)
8G40	P	FEM. 1/4"	N/A	225	325	59	11	21	63	120	250	430	110	79	61	51	39	25.8	19	10.63	6.80	4.54	2.00	1.70	0.92	0.48	40.0	34.0	31.9	25.8	31.7 (14.4)	7 3/4 (197)	6 5/8 (168)	6 7/8 (175)
8G22NF	PV	T881	N/A	245	350	82	18	35	87	160	330	540	135	100	64	72	55.5	33.5	24	13.60	8.40	5.74	2.53	2.15	1.16	0.58	50.6	42.0	40.8	33.5	37.6 (17.1)	9 3/8 (238)	5 1/2 (140)	9 1/4 (235)
8G24	HQP	T872M	N/A	410	575	132	33	57	140	245	500	845	215	160	125	105	80	48.5	35	19.77	12.60	8.30	3.68	3.12	1.68	0.84	73.6	63.0	59.3	48.5	53.6 (24.3)	10 7/8 (276)	6 3/4 (171)	9 5/8 (251)
24 PERM	P	FEM. 1/4"	T881	410	575	132	33	57	140	245	500	845	215	160	125	105	80	48.5	35	19.77	12.60	8.30	3.68	3.12	1.68	0.84	73.6	63.0	59.3	48.5	53.6 (24.3)	10 1/4 (260)	6 3/4 (171)	8 3/4 (210)
8G27	HQP	T872M	T876	505	700	160	40	70	170	300	605	1000	255	195	150	125	95	57	41.5	23.30	14.40	9.80	4.32	3.67	1.99	0.99	86.4	72.0	69.9	57.0	63.2 (28.7)	12 3/4 (324)	6 3/4 (171)	9 5/8 (251)
8G30H	HP	T876	N/A	550	780	180	51	84	190	335	690	1160	295	215	165	140	107	64.5	47	26.20	16.10	11.00	4.88	4.14	2.24	1.12	97.6	80.5	78.6	64.5	71.7 (32.5)	12 15/16 (329)	6 3/4 (171)	9 3/4 (248)
8G31	HP	STUD	N/A	550	780	180	51	84	190	335	690	1160	295	215	165	140	107	64.5	47	26.20	16.10	11.00	4.88	4.14	2.24	1.12	97.6	80.5	78.6	64.5	71.7 (32.5)	12 15/16 (329)	6 3/4 (171)	9 3/8 (238)
8G31DT	HPT	SAE/STUD	N/A	550	780	180	51	84	190	335	690	1160	295	215	165	140	107	64.5	47	26.20	16.10	11.00	4.88	4.14	2.24	1.12	97.6	80.5	78.6	64.5	71.7 (32.5)	12 15/16 (329)	6 3/4 (171)	9 3/8 (238)
8GGC2	PV	T881	N/A	585	850	345	92	155	375	680	1360	2200	325	250	210	180	150	99	76	45.30	29.40	20.00	9.00	7.60	3.90	1.98	180	147	136	99	68.4 (31.0)	10 1/4 (260)	7 1/8 (181)	10 7/8 (276)
8G4D	HP	SAE	T903/T975	1050	1350	375	105	175	395	685	1385	2300	485	375	300	255	195	122	88	49.20	30.50	20.70	9.15	7.78	4.22	2.10	183	152.5	147.6	122	129.8 (58.9)	20 3/4 (527)	8 1/2 (216)	10 (254)
8G8D	HP	SAE	T903/T975	1265	1615	475	135	220	500	890	1750	3000	600	460	370	315	245	150	105	60.60	37.60	25.50	11.25	9.54	5.18	2.65	225	188	181.8	150	160.8 (72.9)	20 3/4 (527)	11 (279)	10 (254)

## New Exclusive 40 Amp Hour Battery!



### BENEFITS

- Completely maintenance free. Sealed construction eliminates periodic watering, corrosive acid fumes and spills.
- Electrolyte will not stratify, no equalization charging required. Allows faster recharge.
- Increases durability and deep cycle ability for heavy demand applications.
- Less than 2% per month stand loss means little deterioration during transport and storage.
- Tank formation ensures voltage matching between cells.
- Transports easily and safely by air. No special containers needed.
- Ensures reliable service, support and quality.

### APPLICATIONS

- Water Pumping
- Residential
- Communications
- Cathodic Protection
- Remote Monitoring
- Refrigeration
- Lighting
- Aids to Navigation
- Wind Generation
- Wheelchairs
- RV's
- Golf Carts
- Solar
- Many other deep cycle applications

### SPECIFICATIONS

Voltage . . . . . 6 & 12 volts nominal  
 Plate Alloy . . . . . Lead Calcium  
 Posts . . . . . Forged terminals & bushings  
 Container/Cover . Polypropylene  
 Charge Voltage . . Cycle 2.30 to 2.35; Float 2.25 to 2.30 v.p.c.  
 Specific Gravity . 1.280  
 Electrolyte . . . . . Sulfuric acid thixotropic gel  
 Vent . . . . . Self sealing (2PSI operation)  
 Resistance . . . . . 4.0 Milliohms (Full Charge)  
 Operating Temp . Fully charged range: -76°F(-60°C) to 140°F(60°C)

## Charging Information & Chart Footnotes

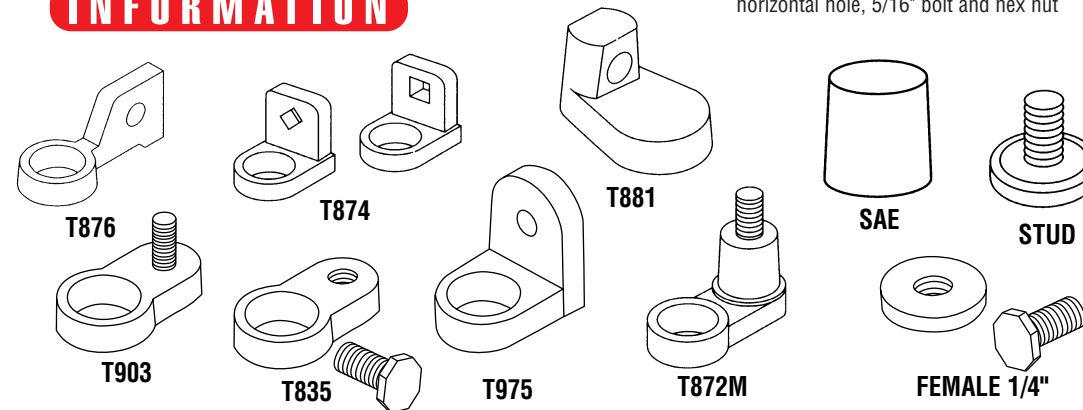
\* AMPERE HOUR CAPACITY IS A NOMINAL RATING. ALL RATINGS ARE AFTER 15 CYCLES AND CONFORM TO B.C.I. SPECIFICATIONS.

**BATTERY VOLTAGE:** All batteries are 12 Volt excluding MODEL 8GGC2, 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 13.8 volts but no more than 14.1 volts at 68°F (20°C). For 6-volt batteries, charge to at least 6.9 volts but no more than 7.05 volts at 68°F (20°C).** 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.

### TERMINAL INFORMATION

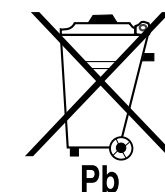


#### FOOTNOTES:

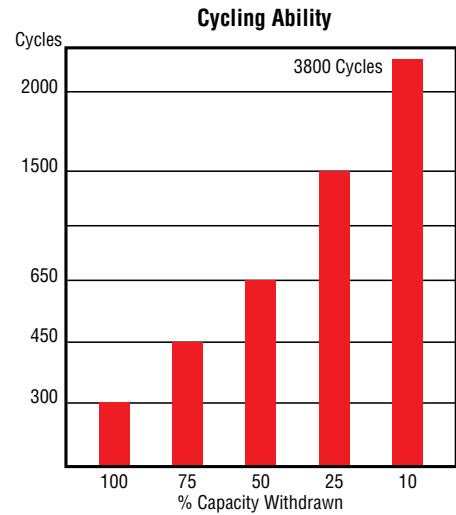
- H - Includes handles
- P - Polypropylene container and cover
- Q - Combination terminals, offset with 5/16" stainless stud and wing nuts
- T - Dual top terminals w/SAE posts & stainless steel 3/8" stud and wing nuts
- V - Combination terminals, offset post with horizontal hole, 5/16" bolt and hex nut



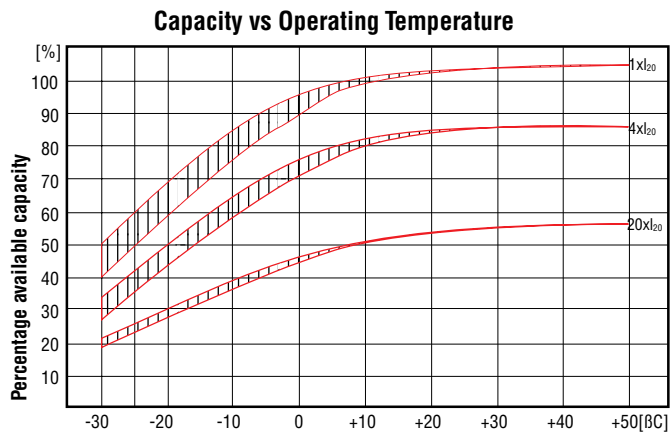
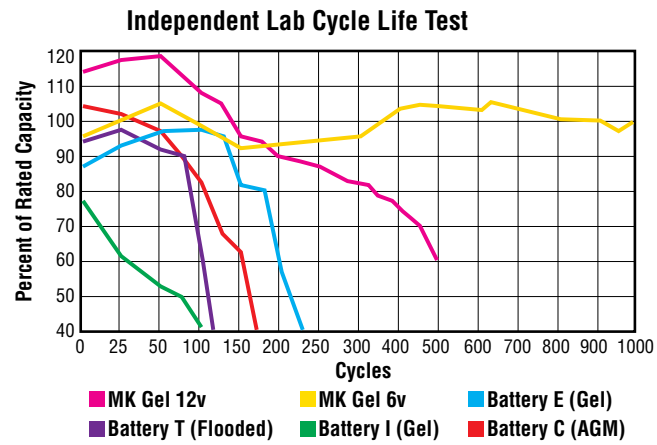
ISO 9001



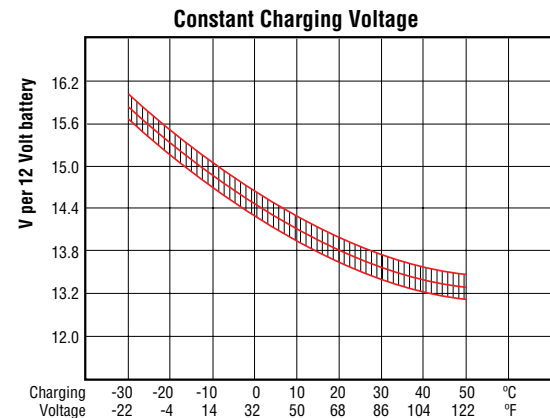
# CHARACTERISTICS OF MK GEL BATTERIES



Number of cycles vs. depth of discharge at +20°C (77°F) discharge with 20 hour rate



**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 2.3V/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**  
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.

## 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:

- Products:** 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.
- Service:** MK Battery ships fresh inventory fast, often within 24 hours, from a stock of more than 100,000 batteries in multiple key warehouses throughout North America and assures our customers proper spent battery disposal through EPA permitted smelters. (Please note that hazardous waste disposal laws 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.



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Products  
Service  
Customer Care

The Sealed Battery Specialists