MOTIVE POWER

AGM ZYKLENTYP

Q-BATTERIES QUALITY

12LC-75

12 V 77 Ah

Q-Batteries Akku 12LC-75 battery is a special deep cycle battery which is designed for intensive cyclic discharge usage. Because of the very thick lead plates it's possible to achieve more cycles and longer lifetime.

Application:

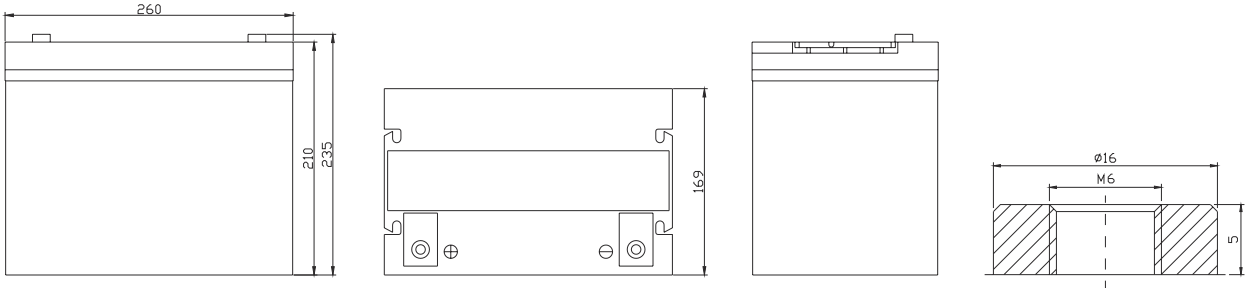
Electric wheelchair, caravan/marine,
cleaning machines, golf cart,
vehicle lifts, solar energy system, u.v.m.

Specification:

Voltage Per Unit	12 V		
Capacity	77 Ah	@20hr-rate to 1.8V per cell @25°C	
Cells Per Unit	6		
Weight	ca. 23.5 kg +/- 3%		
Max. Discharge Current	750 A (5 sec.)		
Internal Resistance	ca. 5.8 m Ω		
Operating Temperature Range Normal	Discharge: - 15°C – 50°C	Charge: -10°C – 50°C	Storage: - 20°C – 50°C
Operating Temperature Range	25°C ± 5°C		
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.		
Terminal	F11 (M6 bolt)		
Container Material	A.B.S. (UL94-HB)		

Dimensions:

260 Length x 169 Width x 210 mm Height



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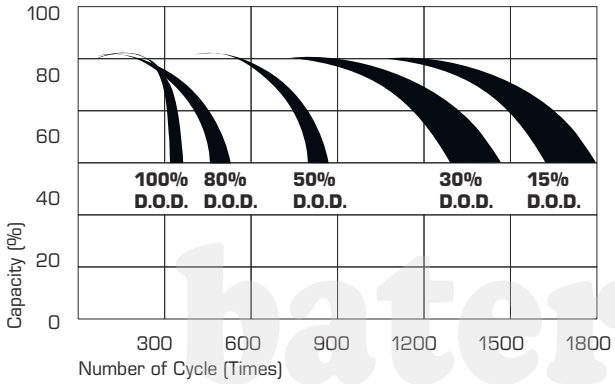
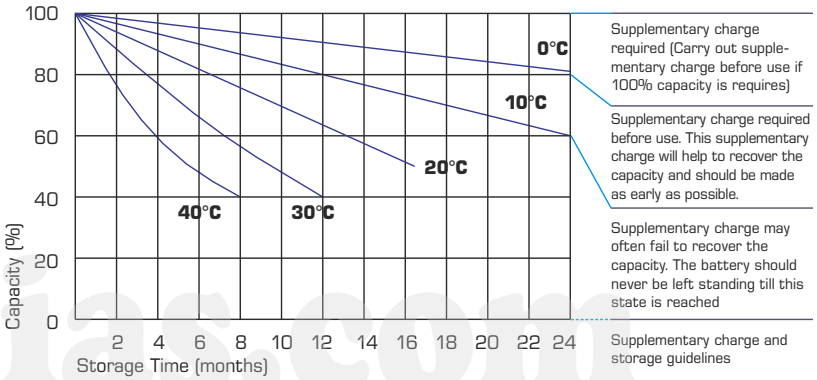
Constant current discharge characteristics: A (25°C)

F.V/Time	5 Min.	10 Min.	15 Min.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
9.60 V	246.3	181.3	141.3	86.14	47.78	28.57	19.73	16-34	13.76	9.40	7.80	4.16
10.0 V	239.2	172.5	138.4	84.65	47.55	28.36	19.65	16.27	13.68	9.32	7.72	4.08
10.2 V	232.1	166.4	136.3	83.08	47.11	28.14	19.50	16.19	13.60	9.25	7.65	4.01
10.5 V	208.4	153.6	129.8	82.46	46.67	27.93	19.43	16.04	13.44	9.17	7.57	3.93
10.8 V	188.1	140.0	119.6	81.05	45.57	27.43	18.90	15.66	13.19	9.02	7.50	3.86
11.1 V	160.6	125.2	107.3	75.88	43.29	26.21	18.07	14.91	12.63	8.63	7.27	3.63

Life characteristics of cyclic use:



Storage characteristic:



Capacity Factors with different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL	6V & 12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
Battery	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM	6V & 12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
Battery	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Charging Method:

Charge the batteries at least once every six months, if they are stored at 25°C

Constant Voltage (V)	-0.2C x 2h + 2.4–2.45V/Cell x 24h, max. Current 0.3CA
Constant Current (A)	-0.2C x 2h + 0.1CA x 12h
Fast	-0.2C x 2h + 0.3CA x 4.0h