MOTIVE POWER

AGM ZYKLENTYP

Q-BATTERIES UALITY

12LCP-12

12 V 13 Ah

Q-Batteries Akku 12LCP-12 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:

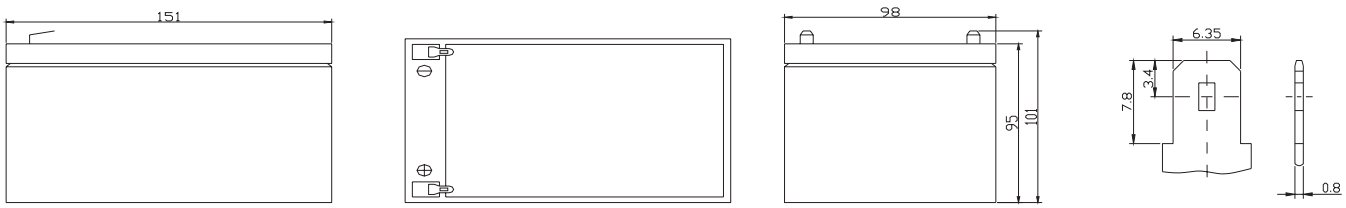
Electric wheelchair, caravan/marine, cleaning machines, golf cart, vehicle lifts, solar energy system, u.v.m.

Specification:

Voltage Per Unit	12 V		
Capacity	13 Ah	@20hr-rate to 1.8V per cell @25°C	
Cells Per Unit	6		
Weight	ca. 4.2 kg +/- 3%		
Max. Discharge Current	120 A (5 sec.)		
Internal Resistance	ca. 13 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	F2 (Faston 6,35mm)		
Container Material	A.B.S. (UL94-HB)		

Dimensions:

151 Length x 98 Width x 95 mm Height

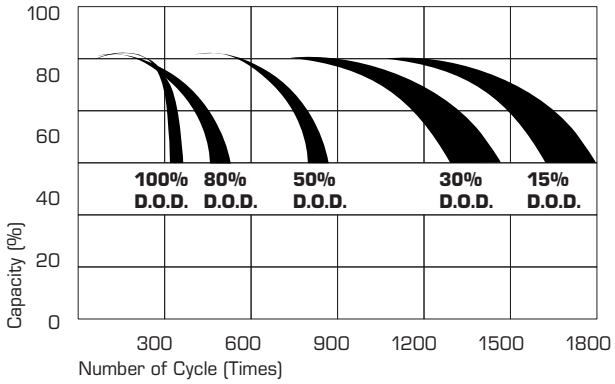


12LCP-12

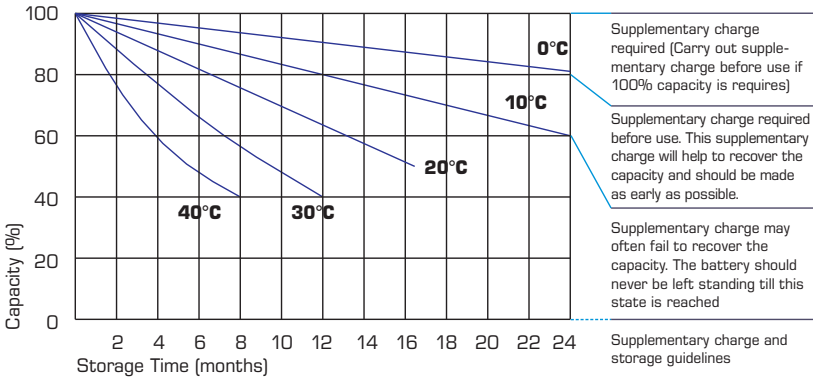
Constant current discharge characteristics: A (25°C)

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	53.80	35.48	28.01	16.19	8.865	5.425	3.742	2.898	2.381	1.524	1.331	0.726
10.0 V	51.63	34.10	27.24	15.94	8.813	5.382	3.727	2.872	2.367	1.518	1.318	0.700
10.2 V	48.84	32.93	26.49	15.81	8.736	5.352	3.712	2.834	2.353	1.512	1.304	0.686
10.5 V	44.12	30.93	24.99	15.46	8.618	5.298	3.678	2.807	2.337	1.506	1.291	0.660
10.8 V	39.40	28.82	23.48	15.08	8.465	5.267	3.643	2.785	2.324	1.500	1.264	0.634
11.1 V	34.72	26.70	21.98	14.59	8.258	5.189	3.598	2.710	2.310	1.494	1.250	0.620

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