MOTIVE POWER

AGM ZYKLENTYP

Q-BATTERIES UALITY

12LCP-19

12 V 19 Ah

Q-Batteries Akku 12LCP-19 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:

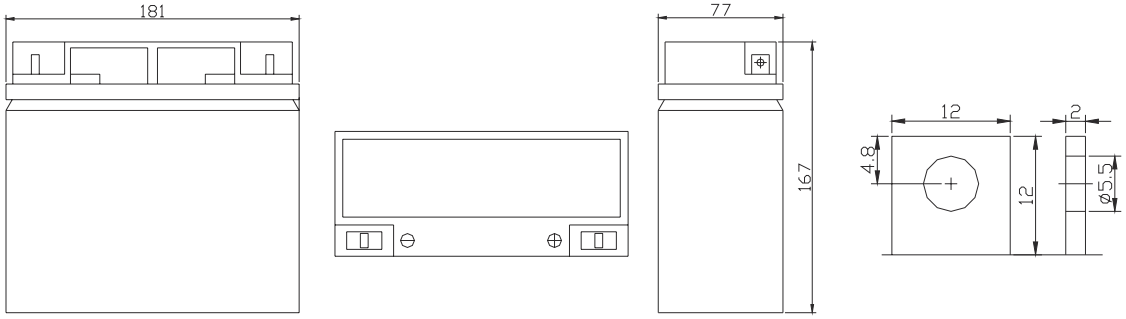
Electric wheelchair, caravan/marine,
cleaning machines, golf cart,
vehicle lifts, solar energy system, u.v.m.

Specification:

Voltage Per Unit	12 V		
Capacity	19 Ah	@20hr-rate to 1.8V per cell @25°C	
Cells Per Unit	6		
Weight	ca. 5.7 kg +/- 3%		
Max. Discharge Current	180 A (5 sec.)		
Internal Resistance	ca. 14 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	F3		
Container Material	A.B.S. (UL94-HB)		

Dimensions:

181 Length x 77 Width x 167 mm Height



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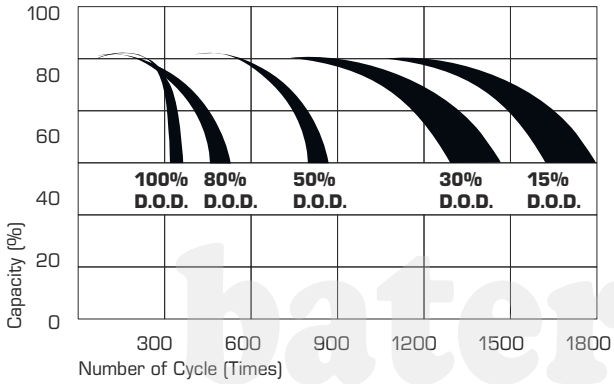
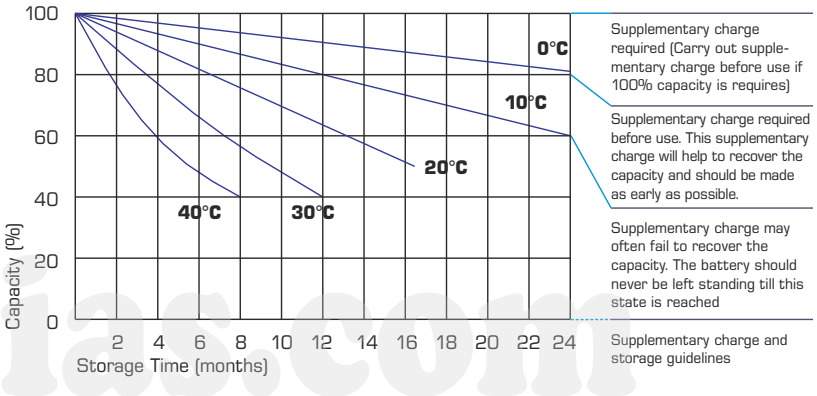
Constant current discharge characteristics: A (25°C)

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	80.70	53.22	42.02	24.28	13.30	8.137	5.613	4.347	3.572	2.286	1.997	1.089
10.0 V	77.44	51.15	40.85	23.91	13.22	8.073	5.591	4.308	3.551	2.277	1.977	1.049
10.2 V	73.25	49.39	39.74	23.72	13.10	8.028	5.569	4.252	3.530	2.268	1.956	1.030
10.5 V	66.18	46.39	37.49	23.18	12.93	7.946	5.517	4.211	3.505	2.259	1.936	0.990
10.8 V	59.10	43.23	35.22	22.63	12.70	7.901	5.465	4.178	3.486	2.250	1.895	0.950
11.1 V	52.09	40.05	32.97	21.89	12.39	7.783	5.397	4.065	3.464	2.241	1.875	0.931

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