

**12LCP-19** 12V 19Ah

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:

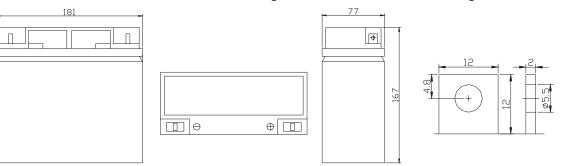
Electric wheelchair, caravan/marine, cleaning machines, golf cart, vehicle lifts, solar energy system, u.v.m.



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### **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%	D				
Max. Discharge Current	180 A (5 sec.)					
Internal Resistance	ca. 14 m $\Omega$					
Operating Temperature Range Normal	Discharge: - 15°C – 50°C	Charge: -10°C – 50°C	0			
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			



## 12LCP-19

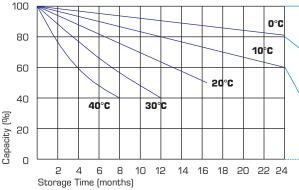
#### Constant current discharge characteristics: A (25°C)

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:

#### 100 80 60 100% 15% 80% 50% 30% 40 D.O.D. D.O.D. D.O.D. D.O.D. D.O.D. Capacity (%) 20 0 900 1800 300 600 1200 1500 Number of Cycle (Times)

## Storage characteristic:



Supplementary charge required (Carry out supplementary charge before use if 100% capacity is requires)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

## Capacity Factors with different Temperature:

Batte	ery 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