



## 12LCP-5

12V 5Ah



Q-Batteries Akku 12LCP-5 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.

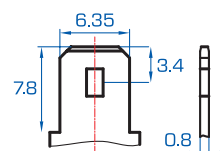
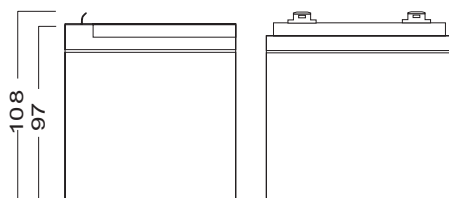
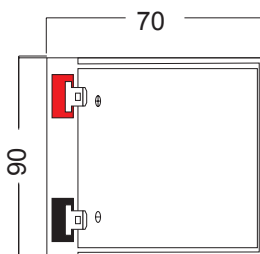


### Specification:

Voltage Per Unit	12 V		
Capacity	5 Ah @20hr-rate to 1.8V per cell @25°C		
Cells Per Unit	6		
Weight	ca. 1.58 kg +/- 3%		
Max. Discharge Current	75 A (5 sec.)		
Internal Resistance	ca. 40 m Ω		
Operating Temperature Range	Discharge:	Charge:	Storage:
Normal	-40°C – 60°C	-20°C – 50°C	-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:

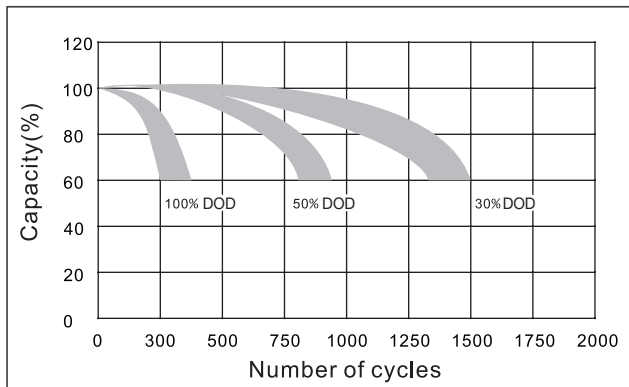
90 Length x 70 Width x 108 mm Height



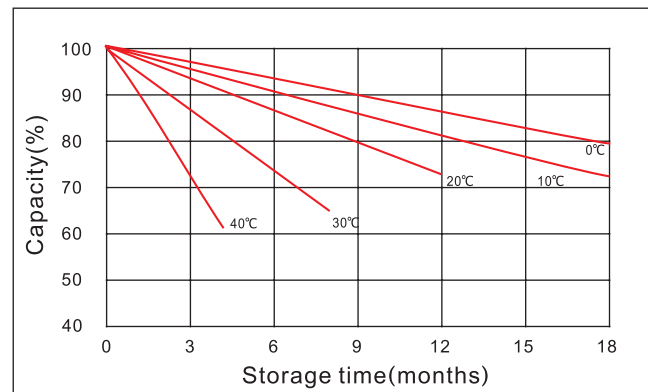
## Constant current discharge characteristics: A (25°C)

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
1.60V	19.8	13.0	9.65	6.33	3.30	1.89	1.38	1.11	0.940	0.620	0.495	0.265
1.65V	19.7	12.4	8.85	6.01	3.10	1.82	1.34	1.07	0.920	0.610	0.490	0.260
1.70V	16.1	11.7	8.25	5.82	3.00	1.78	1.32	1.02	0.910	0.600	0.480	0.255
1.75V	15.0	11.1	7.70	5.69	2.90	1.74	1.30	1.00	0.870	0.585	0.470	0.250
1.80V	13.8	10.5	7.15	5.50	2.80	1.69	1.23	0.980	0.835	0.570	0.460	0.240

## 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 Battery	6V & 12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V & 12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	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