



## 12LC-67

12V 67Ah



Q-Batteries Akku 12LC-67 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.

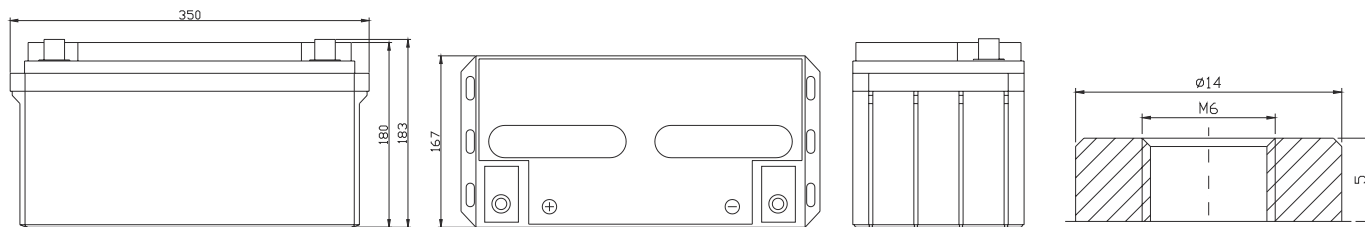


### Specification:

Voltage Per Unit	12 V		
Capacity	67 Ah	@20hr-rate to 1.8V per cell @25°C	
Cells Per Unit	6		
Weight	ca. 21 kg +/- 3%		
Max. Discharge Current	650 A (5 sec.)		
Internal Resistance	ca. 6 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:

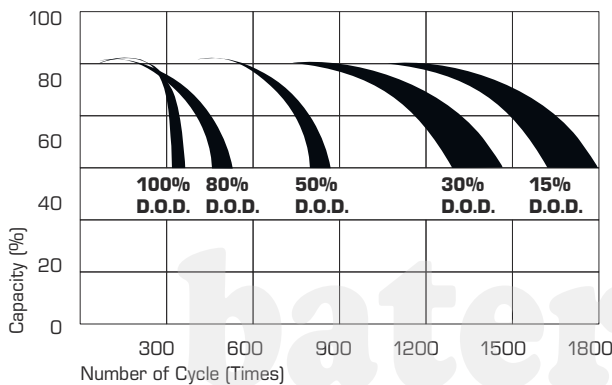
350 Length x 167 Width x 180 mm Height



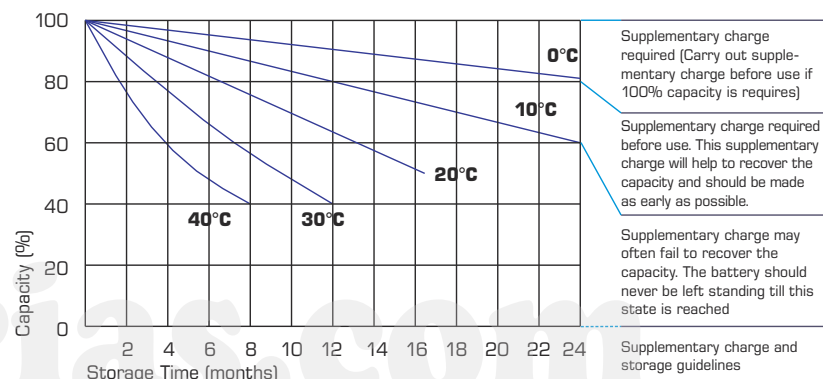
## Constant current discharge characteristics: A (25°C)

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
9.60V	213.4	1571	122.5	74.65	41.41	24.76	17.10	14.16	11.92	8.145	6.756	3.605
10.0 V	207.3	149.5	120.0	73.36	41.21	24.58	17.03	14.10	11.85	8.079	6.691	3.539
10.2 V	201.1	144.2	118.1	72.01	40.83	24.39	16.90	14.03	11.78	8.013	6.626	3.474
10.5 V	180.6	133.1	112.5	71.46	40.45	24.20	16.84	13.90	11.64	7.947	6.561	3.408
10.8 V	163.0	121.4	103.7	70.24	39.49	23.77	16.38	13.57	11.43	7.814	6.496	3.343
11.1 V	139.2	108.5	92.98	65.76	37.52	22.71	15.66	12.92	10.94	7.483	6.301	3.146

## 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