



# 12LC-80

12V 80Ah



Q-Batteries Akku 12LC-80 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.

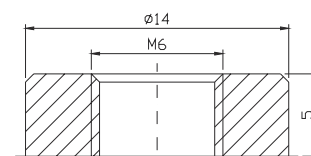
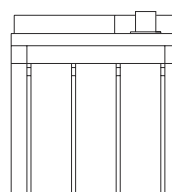
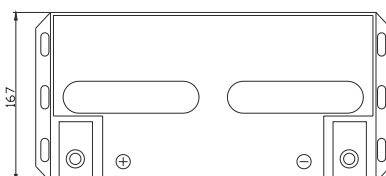
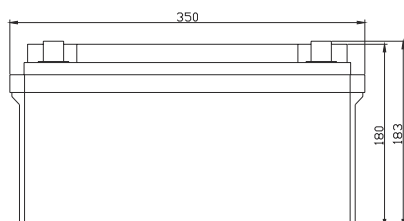


## Specification:

Voltage Per Unit	12 V		
Capacity	80 Ah	@20hr-rate to 1.8V per cell @25°C	
Cells Per Unit	6		
Weight	ca. 24 kg +/- 3%		
Max. Discharge Current	800 A (5 sec.)		
Internal Resistance	ca. 5.5 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:

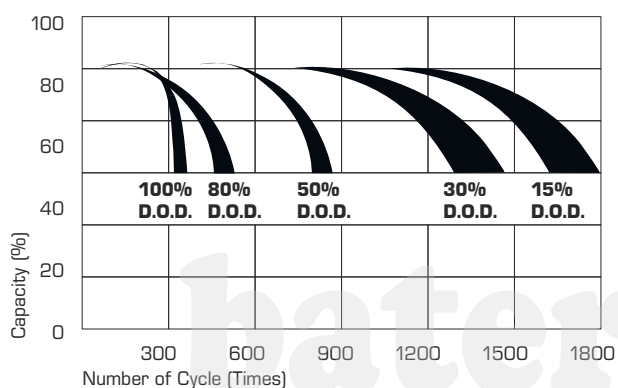
350 Length x 167 Width x 180 mm Height



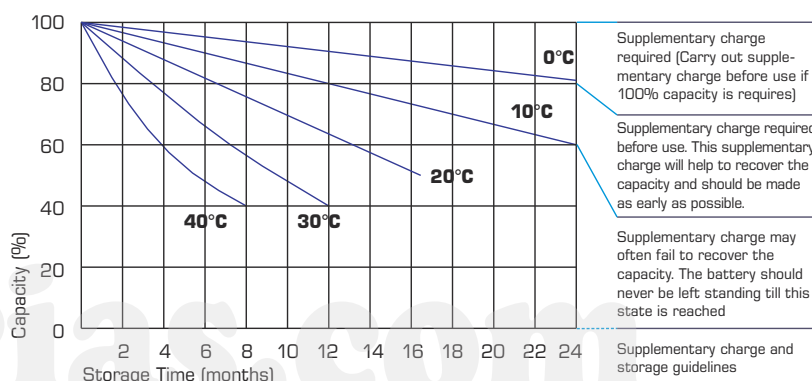
## Constant current discharge characteristics: A (25°C)

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
9.60 V	262.7	193.4	150.8	91.88	50.96	30.48	21.04	17.43	14.68	10.03	8.3	4.44
10.0 V	255.1	184.0	147.7	90.29	50.72	30.25	20.96	17.35	14.59	9.94	8.24	4.36
10.2 V	247.5	177.5	145.4	88.62	50.25	30.02	20.80	17.27	14.50	9.86	8.16	4.28
10.5 V	222.3	163.8	138.4	87.95	49.78	29.79	20.72	17.11	14.33	9.78	8.08	4.19
10.8 V	200.6	149.4	127.6	86.45	48.61	29.25	20.16	16.71	14.07	9.62	8.00	4.11
11.1 V	171.3	133.5	114.4	80.94	46.18	27.96	19.27	15.90	13.47	9.21	7.76	3.87

## 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