



# 12LC-150

12V 160Ah



Q-Batteries Akku 12LC-150 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.

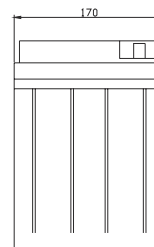
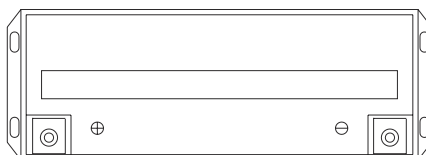
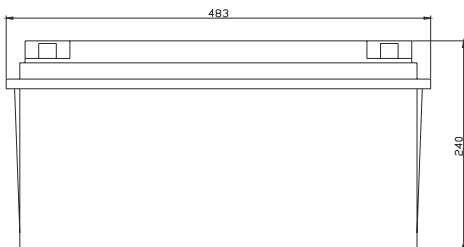
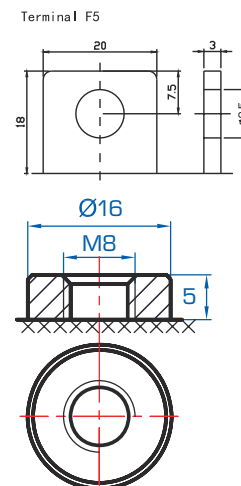


## Specification:

Voltage Per Unit	12 V		
Capacity	160 Ah	@20hr-rate to 1.8V per cell @25°C	
Cells Per Unit	6		
Weight	ca. 44.5 kg +/- 3%		
Max. Discharge Current	1500 A (5 sec.)		
Internal Resistance	ca. 4 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 F5, F12 (M8 bolt)  
Container Material A.B.S. (UL94-HB)

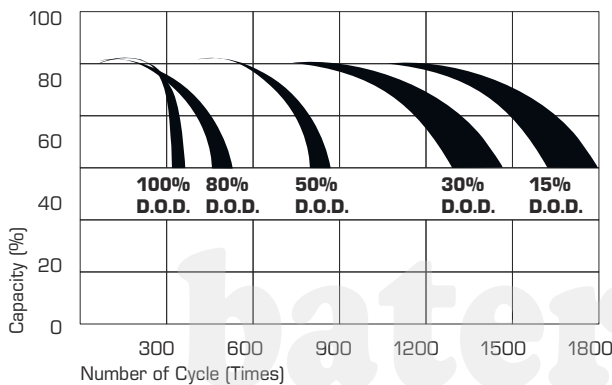
**Dimensions:** 483 Length x 170 Width x 240 mm Height



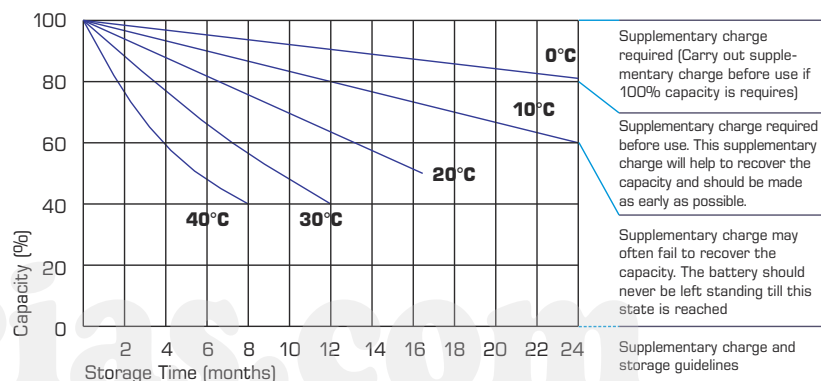
## Constant current discharge characteristics: A (25°C)

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	432.9	323.3	272.1	169.0	97.50	58.34	40.32	33.05	27.05	18.63	15.75	8.665
10.0 V	420.4	307.6	266.5	166.2	97.05	57.90	40.17	32.90	26.89	18.48	15.60	8.507
10.2 V	407.9	296.7	262.4	164.7	96.15	57.46	39.86	32.74	26.73	18.33	15.45	8.350
10.5 V	366.3	273.8	249.8	160.6	95.25	57.03	39.71	32.44	26.41	18.18	15.30	8.192
10.8 V	330.6	249.7	230.3	153.6	93.00	56.00	38.63	31.67	25.94	17.88	15.15	8.035
11.1 V	282.3	223.1	206.5	143.9	88.35	53.52	36.93	30.14	24.82	17.12	14.69	7.562

## 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