



12LC-225

12V 243Ah



Q-Batteries Akku 12LC-225 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.

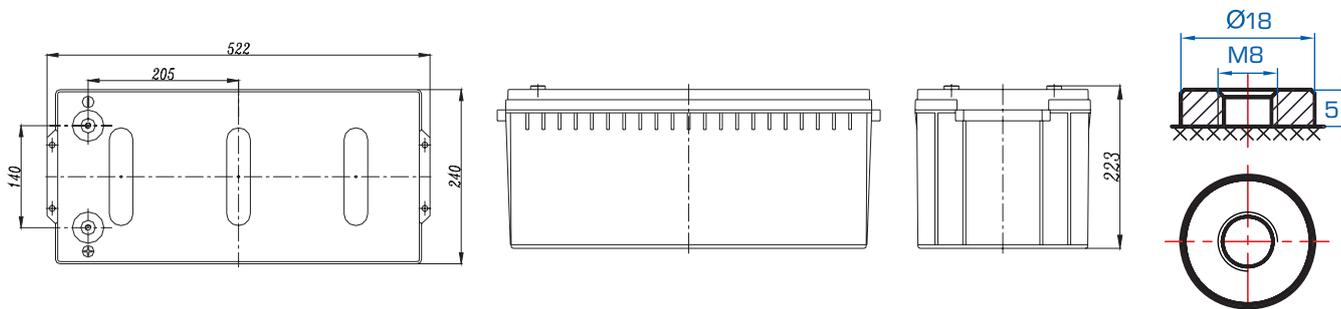


Specification:

Voltage Per Unit	12 V		
Capacity	243 Ah	@20hr-rate to 1.8V per cell @25°C	
Cells Per Unit	6		
Weight	ca. 65 kg +/- 3%		
Max. Discharge Current	2250 A (5 sec.)		
Internal Resistance	ca. 3.7 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	F14 (M8 bolt)		
Container Material	A.B.S. (UL94-HB)		

Dimensions:

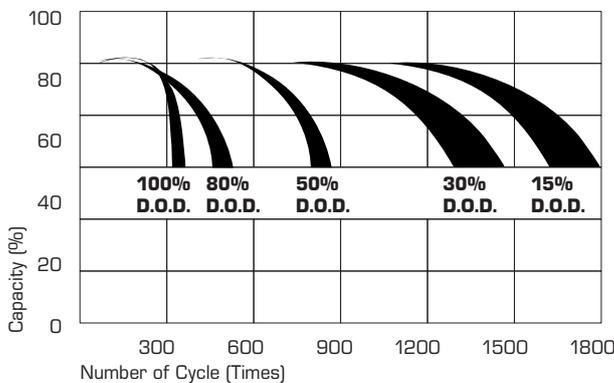
522 Length x 240 Width x 223 mm Height



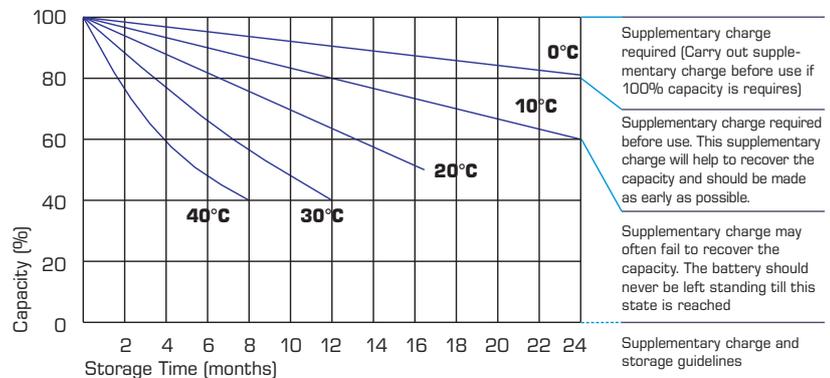
Constant current discharge characteristics: A (25°C)

FV/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	613.3	459.4	387.8	235.8	146.3	87.5	60.5	49.6	40.6	27.9	23.6	13.0
10.0 V	595.5	437.1	379.8	231.9	145.6	86.9	60.3	49.3	40.3	27.7	23.4	12.8
10.2 V	577.9	421.7	373.9	229.8	144.2	86.2	59.8	49.1	40.1	27.5	23.2	12.5
10.5 V	518.9	389.1	356.0	224.1	142.9	85.5	59.6	48.7	39.6	27.3	23.0	12.3
10.8 V	468.4	354.8	328.1	214.2	139.5	84.0	57.9	47.5	38.9	26.8	22.7	12.1
11.1 V	399.9	317.1	294.3	200.7	132.5	80.3	55.4	45.2	37.2	25.7	22.0	11.3

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