



# 12LC-130

12V 128Ah



Q-Batteries Akku 12LC-130 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.

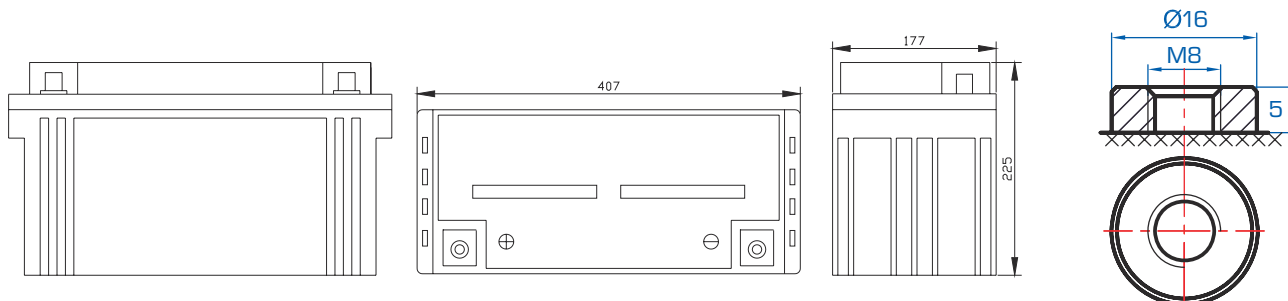


## Specification:

Voltage Per Unit	12 V		
Capacity	128 Ah	@20hr-rate to 1.8V per cell @25°C	
Cells Per Unit	6		
Weight	ca. 35 kg +/- 3%		
Max. Discharge Current	1300 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	F12 (M8 bolt)		
Container Material	A.B.S. (UL94-HB)		

## Dimensions:

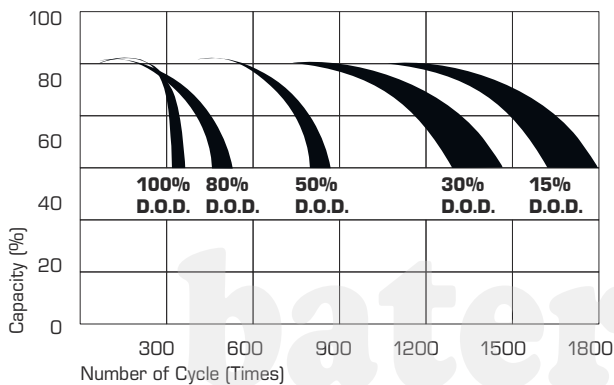
407 Length x 177 Width x 225 mm Height



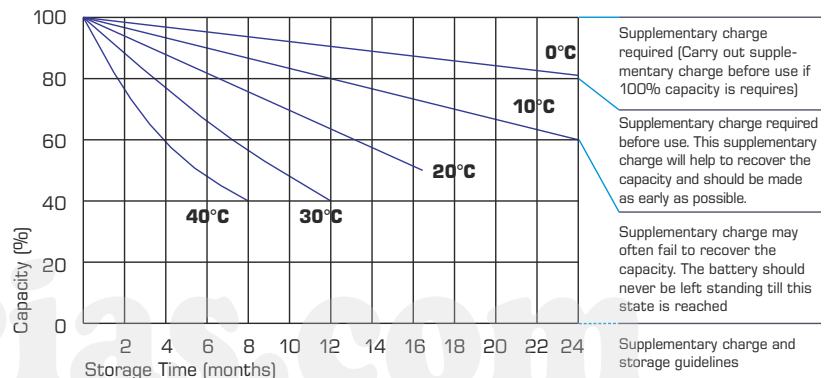
## Constant current discharge characteristics: A (25°C)

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	365.5	266.8	217.7	135.2	78.00	46.67	32.26	26.44	21.64	14.91	12.60	6.932
10.0 V	355.0	253.8	213.2	133.0	77.64	46.32	32.14	26.32	21.51	14.78	12.48	6.806
10.2 V	344.5	244.9	209.9	131.8	76.92	45.97	31.89	26.19	21.39	14.66	12.36	6.680
10.5 V	309.3	226.0	199.8	128.5	76.20	45.62	31.77	25.95	21.13	14.54	12.24	6.554
10.8 V	279.2	206.1	184.2	122.9	74.40	44.80	30.90	25.34	20.75	14.30	12.12	6.428
11.1 V	238.4	184.2	165.2	115.1	70.68	42.81	29.54	24.11	19.86	13.69	11.76	6.050

## 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