



# 12LC-130

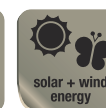
12V 128Ah



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.

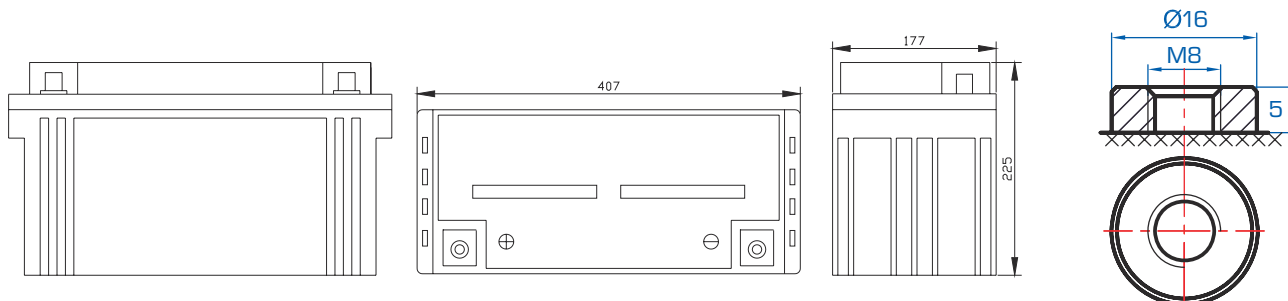


## Specification:

|                                    |   |                                   |                           |
|------------------------------------|---|-----------------------------------|---------------------------|
| 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:<br>- 15°C – 50°C   | Charge:<br>- 10°C – 50°C          | Storage:<br>- 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:

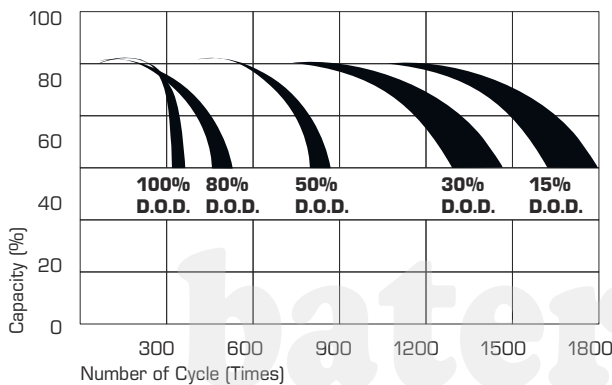
407 Length x 177 Width x 225 mm Height



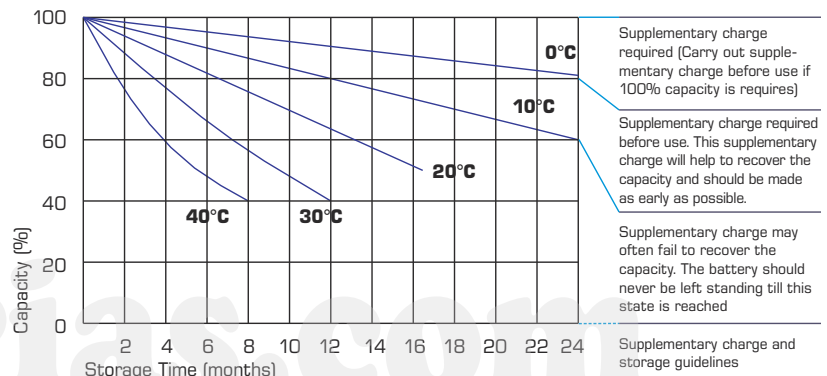
## Constant current discharge characteristics: A (25°C)

| 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                             |