

12LCP-15 12V 15 Ah

Q-Batteries Akku 12LCP-15 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.



MOTIVE POWER

12LCP-15

J-BATTERIES

5 BC

Specification:

| Voltage Per Unit | 12 V | | | | | |
|---------------------------------------|---|-----------------------------------|---------------------------|--|--|--|
| Capacity | 15 Ah | @20hr-rate to 1.8V per cell @25°C | | | | |
| Cells Per Unit | 6 | | | | | |
| Weight | ca. 4.5 kg +/- 3% | | | | | |
| Max. Discharge Current | 140 A (5 sec.) | | | | | |
| Internal Resistance | ca. 12 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 | F2 (Faston 6,35r | nm) | | | | |
| Container Material | A.B.S. (UL94-HB) | | | | | |
| | | | | | | |

151 Length x 98 Width x 99 mm Height

Dimensions:







Q-BATTERIES UALITY

12LCP-15

Constant current discharge characteristics: A (25°C)

| F.V/Time | 5 Min. | 10 Min. | 15 M in. | 30 Min. | 1 HR | 2 HR | 3 HR | 4 HR | 5 HR | 8 HR | 10 HR | 20 HR |
|----------|--------|---------|-----------------|---------|--------|-------|-------|-------|-------|-------|-------|-------|
| 9.60 V | 62.77 | 41.40 | 32.68 | 18.89 | 10.342 | 6.329 | 4.365 | 3.381 | 2.778 | 1.778 | 1.553 | 0.847 |
| 10.0 V | 60.23 | 39.78 | 31.77 | 18.60 | 10.282 | 6.279 | 4.348 | 3.351 | 2.762 | 1.771 | 1.538 | 0.816 |
| 10.2 V | 56.98 | 38.41 | 30.91 | 18.45 | 10.192 | 6.244 | 4.331 | 3.307 | 2.745 | 1.764 | 1.522 | 0.801 |
| 10.5 V | 51.47 | 36.08 | 29.16 | 18.03 | 10.055 | 6.180 | 4.291 | 3.275 | 2.726 | 1.757 | 1.506 | 0.770 |
| 10.8 V | 45.97 | 33.62 | 27.39 | 17.60 | 9.876 | 6.145 | 4.251 | 3.249 | 2.711 | 1.750 | 1.474 | 0.739 |
| 11.1 V | 40.51 | 31.15 | 25.65 | 17.02 | 9.635 | 6.054 | 4.197 | 3.162 | 2.695 | 1.743 | 1.458 | 0.724 |

Life characteristics of cyclic use:

100 80 60 100% 15% 80% 50% 30% 40 D.O.D. D.O.D. D.O.D. D.O.D. D.O.D. Capacity (%) 20 0 900 1800 300 600 1200 1500 Number of Cycle (Times)

Storage characteristic:



Supplementary charge required (Carry out supplementary charge before use if 100% capacity is requires)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

Capacity Factors with different Temperature:

| Batte | ery Type | -20°C | -10°C | 0°C | 5°C | 10°C | 20°C | 25°C | 30°C | 40°C | 45°C |
|---------|----------|-------|-------|-----|-----|------|------|------|------|------|------|
| GEL | 6V & 12V | 50% | 70% | 83% | 85% | 90% | 98% | 100% | 102% | 104% | 105% |
| Battery | 2V | 60% | 75% | 85% | 88% | 92% | 99% | 100% | 103% | 105% | 106% |
| AGM | 6V & 12V | 46% | 66% | 76% | 83% | 90% | 98% | 100% | 103% | 107% | 109% |
| Battery | 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 |