12LCP-19

12 V 19 Ah



Q-Batteries Akku 12LCP-19 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 19 Ah @20hr-rate to 1.8V per cell @25°C

Cells Per Unit 6

Weight ca. 5.7 kg +/- 3%

Max. Discharge Current 180 A (5 sec.) Internal Resistance ca. 14 m Ω

Operating Temperature Range Discharge: Charge: Storage:

Normal - 15°C - 50°C - 10°C - 50°C - 20°C - 50°C

Operating Temperature Range 25°C ± 5°C

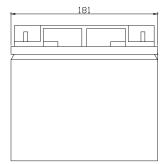
Self Discharge Valve Regulated Lead Acid (VRLA) batteries can be stored for

more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.

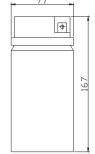
Terminal F3

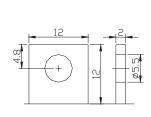
Container Material A.B.S. (UL94-HB)

Dimensions: 181 Length x 77 Width x 167 mm Height







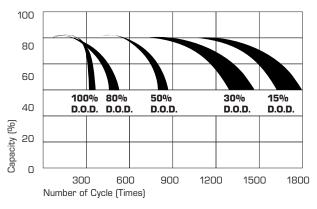




Constant current discharge characteristics: A (25°C)

5 Min.	10 Min.	15 Min.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
80.70	53.22	42.02	24.28	13.30	8.137	5.613	4.347	3.572	2.286	1.997	1.089
77.44	51.15	40.85	23.91	13.22	8.073	5.591	4.308	3.551	2.277	1.977	1.049
73.25	49.39	39.74	23.72	13.10	8.028	5.569	4.252	3.530	2.268	1.956	1.030
66.18	46.39	37.49	23.18	12.93	7.946	5.517	4.211	3.505	2.259	1.936	0.990
59.10	43.23	35.22	22.63	12.70	7.901	5.465	4.178	3.486	2.250	1.895	0.950
52.09	40.05	32.97	21.89	12.39	7.783	5.397	4.065	3.464	2.241	1.875	0.931
	80.70 77.44 73.25 66.18 59.10	80.70 53.22 77.44 5115 73.25 49.39 66.18 46.39 59.10 43.23	80.70 53.22 42.02 77.44 51.15 40.85 73.25 49.39 39.74 66.18 46.39 37.49 59.10 43.23 35.22	80.70 53.22 42.02 24.28 77.44 51.15 40.85 23.91 73.25 49.39 39.74 23.72 66.18 46.39 37.49 23.18 59.10 43.23 35.22 22.63	80.70 53.22 42.02 24.28 13.30 77.44 51.15 40.85 23.91 13.22 73.25 49.39 39.74 23.72 13.10 66.18 46.39 37.49 23.18 12.93 59.10 43.23 35.22 22.63 12.70	80.70 53.22 42.02 24.28 13.30 8.137 77.44 51.15 40.85 23.91 13.22 8.073 73.25 49.39 39.74 23.72 13.10 8.028 66.18 46.39 37.49 23.18 12.93 7.946 59.10 43.23 35.22 22.63 12.70 7.901	80.70 53.22 42.02 24.28 13.30 8137 5.613 77.44 51.15 40.85 23.91 13.22 8.073 5.591 73.25 49.39 39.74 23.72 1310 8.028 5.569 66.18 46.39 37.49 23.18 12.93 7.946 5.517 59.10 43.23 35.22 22.63 12.70 7.901 5.465	80.70 53.22 42.02 24.28 13.30 8.137 5.613 4.347 77.44 51.15 40.85 23.91 13.22 8.073 5.591 4.308 73.25 49.39 39.74 23.72 13.10 8.028 5.569 4.252 66.18 46.39 37.49 23.18 12.93 7.946 5.517 4.211 59.10 43.23 35.22 22.63 12.70 7.901 5.465 4.178	80.70 53.22 42.02 24.28 13.30 8137 5.613 4.347 3.572 77.44 5115 40.85 23.91 13.22 8.073 5.591 4.308 3.551 73.25 49.39 39.74 23.72 1310 8.028 5.569 4.252 3.530 66.18 46.39 37.49 23.18 12.93 7.946 5.517 4.211 3.505 59.10 43.23 35.22 22.63 12.70 7.901 5.465 41.78 3.486	80.70 53.22 42.02 24.28 13.30 8.137 5.613 4.347 3.572 2.286 77.44 51.15 40.85 23.91 13.22 8.073 5.591 4.308 3.551 2.277 73.25 49.39 39.74 23.72 13.10 8.028 5.569 4.252 3.530 2.268 66.18 46.39 37.49 23.18 12.93 7.946 5.517 4.211 3.505 2.259 59.10 43.23 35.22 22.63 12.70 7.901 5.465 4.178 3.486 2.250	80.70 53.22 42.02 24.28 13.30 8137 5.613 4.347 3.572 2.286 1.997 77.44 5115 40.85 23.91 13.22 8.073 5.591 4.308 3.551 2.277 1.977 73.25 49.39 39.74 23.72 1310 8.028 5.569 4.252 3.530 2.268 1.956 66.18 46.39 37.49 23.18 12.93 7.946 5.517 4.211 3.505 2.259 1.936 59.10 43.23 35.22 22.63 12.70 7.901 5.465 4.178 3.486 2.250 1.895

Life characteristics of cyclic use:



Storage characteristic:



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