12LC-80

12 V 80 Ah



Q-Batteries Akku 12LC-80 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 80 Ah @20hr-rate to 1.8V per cell @25°C

Cells Per Unit 6

Weight ca. 24 kg +/- 3% Max. Discharge Current 800 A (5 sec.) Internal Resistance ca. 5.5 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

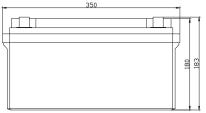
Self Discharge Valve Regulated Lead Acid (VRLA) batteries can be stored for

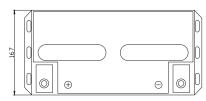
more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.

Terminal F11 (M6 bolt)

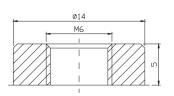
Container Material A.B.S. (UL94-HB)

Dimensions: 350 Length x 167 Width x 180 mm Height







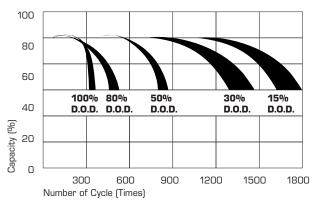




Constant current discharge characteristics: A (25°C)

5 Min.	10 Min.	45 Min									
		15 Min.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
262.7	193.4	150.8	91.88	50.96	30.48	21.04	17.43	14.68	10.03	8.3	4.44
255.1	184.0	147.7	90.29	50.72	30.25	20.96	17.35	14.59	9.94	8.24	4.36
247.5	177.5	145.4	88.62	50.25	30.02	20.80	17.27	14.50	9.86	8.16	4.28
222.3	163.8	138.4	87.95	49.78	29.79	20.72	17:11	14.33	9.78	8.08	4.19
200.6	149.4	127.6	86.45	48.61	29.25	20.16	16.71	14.07	9.62	8.00	4.11
171.3	133.5	114.4	80.94	46.18	27.96	19.27	15.90	13.47	9.21	7.76	3.87
	255.1 247.5 222.3 200.6	255.1 184.0 247.5 177.5 222.3 163.8 200.6 149.4	255.1 184.0 147.7 247.5 177.5 145.4 222.3 163.8 138.4 200.6 149.4 127.6	255.1 184.0 147.7 90.29 247.5 177.5 145.4 88.62 222.3 163.8 138.4 87.95 200.6 149.4 127.6 86.45	255.1 184.0 147.7 90.29 50.72 247.5 177.5 145.4 88.62 50.25 222.3 163.8 138.4 87.95 49.78 200.6 149.4 127.6 86.45 48.61	255.1 184.0 147.7 90.29 50.72 30.25 247.5 177.5 145.4 88.62 50.25 30.02 222.3 163.8 138.4 87.95 49.78 29.79 200.6 149.4 127.6 86.45 48.61 29.25	255.1 184.0 147.7 90.29 50.72 30.25 20.96 247.5 177.5 145.4 88.62 50.25 30.02 20.80 222.3 163.8 138.4 87.95 49.78 29.79 20.72 200.6 149.4 127.6 86.45 48.61 29.25 20.16	255.1 184.0 147.7 90.29 50.72 30.25 20.96 17.35 247.5 177.5 145.4 88.62 50.25 30.02 20.80 17.27 222.3 163.8 138.4 87.95 49.78 29.79 20.72 17.11 200.6 149.4 127.6 86.45 48.61 29.25 20.16 16.71	255.1 184.0 147.7 90.29 50.72 30.25 20.96 17.35 14.59 247.5 177.5 145.4 88.62 50.25 30.02 20.80 17.27 14.50 222.3 163.8 138.4 87.95 49.78 29.79 20.72 17.11 14.33 200.6 149.4 127.6 86.45 48.61 29.25 20.16 16.71 14.07	255.1 184.0 147.7 90.29 50.72 30.25 20.96 17.35 14.59 9.94 247.5 177.5 145.4 88.62 50.25 30.02 20.80 17.27 14.50 9.86 222.3 163.8 138.4 87.95 49.78 29.79 20.72 17.11 14.33 9.78 200.6 149.4 127.6 86.45 48.61 29.25 20.16 16.71 14.07 9.62	255.1 184.0 147.7 90.29 50.72 30.25 20.96 17.35 14.59 9.94 8.24 247.5 177.5 145.4 88.62 50.25 30.02 20.80 17.27 14.50 9.86 816 222.3 163.8 138.4 87.95 49.78 29.79 20.72 17.11 14.33 9.78 8.08 200.6 149.4 127.6 86.45 48.61 29.25 20.16 16.71 14.07 9.62 8.00

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