

12LCP-56 12V 56Ah



Q-Batteries Akku 12LCP-56 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 56 Ah @20hr-rate to 1.8V per cell @25°C

Cells Per Unit 6

Weight ca. 18 kg

Max. Discharge Current 550 A (5 sec.) Internal Resistance ca. 6 m Ω

Operating Temperature Range Discharge: Charge: Storage:

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

Operating Temperature Range $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$

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

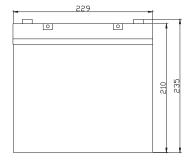
more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.

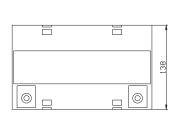
Terminal F11 (M6)

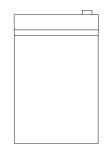
Container Material A.B.S. (UL94-HB)

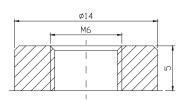
Dimensions

229 Length x 138 Width x 210 mm Height







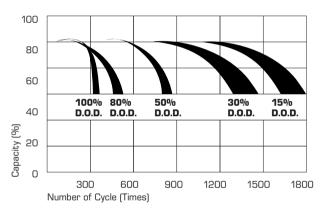




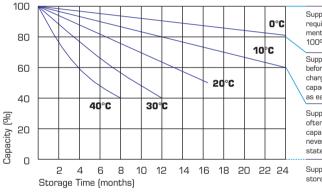
Constant current discharge characteristics: A (25°C)

5 Min.	10 Min.	15 Min.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
180.6	133.0	103.7	63.17	35.04	20.95	14.47	11.98	10.09	6.892	5.717	3.050
175.4	126.5	101.5	62.08	34.87	20.79	14.41	11.93	10.03	6.836	5.662	2.995
170.2	1221	99.93	60.93	34.55	20.64	14.30	11.87	9.97	6.780	5.607	2.939
152.8	112.6	95.15	60.47	34.23	20.48	14.25	11.76	9.85	6.724	5.552	2.884
137.9	102.7	87.71	59.43	33.42	20.11	13.86	11.49	9.675	6.612	5.497	2.828
117.8	91.8	78.67	55.64	31.75	19.22	13.25	10.93	9.259	6.332	5.332	2.662
	180.6 175.4 170.2 152.8 137.9	180.6 133.0 175.4 126.5 170.2 122.1 152.8 112.6 137.9 102.7	180.6 133.0 103.7 175.4 126.5 101.5 170.2 122.1 99.93 152.8 112.6 95.15 137.9 102.7 87.71	180.6 133.0 103.7 63.17 175.4 126.5 101.5 62.08 170.2 122.1 99.93 60.93 152.8 112.6 95.15 60.47 137.9 102.7 87.71 59.43	180.6 133.0 103.7 6317 35.04 175.4 126.5 101.5 62.08 34.87 170.2 122.1 99.93 60.93 34.55 152.8 112.6 95.15 60.47 34.23 137.9 102.7 87.71 59.43 33.42	180.6 133.0 103.7 63.17 35.04 20.95 175.4 126.5 101.5 62.08 34.87 20.79 170.2 122.1 99.93 60.93 34.55 20.64 152.8 112.6 95.15 60.47 34.23 20.48 137.9 102.7 87.71 59.43 33.42 20.11	180.6 133.0 103.7 63.17 35.04 20.95 14.47 175.4 126.5 101.5 62.08 34.87 20.79 14.41 170.2 122.1 99.93 60.93 34.55 20.64 14.30 152.8 112.6 95.15 60.47 34.23 20.48 14.25 137.9 102.7 87.71 59.43 33.42 20.11 13.86	180.6 133.0 103.7 63.17 35.04 20.95 14.47 11.98 175.4 126.5 101.5 62.08 34.87 20.79 14.41 11.93 170.2 122.1 99.93 60.93 34.55 20.64 14.30 11.87 152.8 112.6 95.15 60.47 34.23 20.48 14.25 11.76 137.9 102.7 87.71 59.43 33.42 20.11 13.86 11.49	180.6 133.0 103.7 63.17 35.04 20.95 14.47 11.98 10.09 175.4 126.5 101.5 62.08 34.87 20.79 14.41 11.93 10.03 170.2 122.1 99.93 60.93 34.55 20.64 14.30 11.87 9.97 152.8 112.6 95.15 60.47 34.23 20.48 14.25 11.76 9.85 137.9 102.7 87.71 59.43 33.42 20.11 13.86 11.49 9.675	180.6 133.0 103.7 63.17 35.04 20.95 14.47 11.98 10.09 6.892 175.4 126.5 101.5 62.08 34.87 20.79 14.41 11.93 10.03 6.836 170.2 122.1 99.93 60.93 34.55 20.64 14.30 11.87 9.97 6.780 152.8 112.6 95.15 60.47 34.23 20.48 14.25 11.76 9.85 6.724 137.9 102.7 87.71 59.43 33.42 20.11 13.86 11.49 9.675 6.612	180.6 133.0 103.7 6317 35.04 20.95 14.47 11.98 10.09 6.892 5.717 175.4 126.5 101.5 62.08 34.87 20.79 14.41 11.93 10.03 6.836 5.662 170.2 122.1 99.93 60.93 34.55 20.64 14.30 11.87 9.97 6.780 5.607 152.8 112.6 95.15 60.47 34.23 20.48 14.25 11.76 9.85 6.724 5.552 137.9 102.7 87.71 59.43 33.42 20.11 13.86 11.49 9.675 6.612 5.497

Life characteristics of cyclic use



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