12LC-260

12 V 275 Ah



Q-Batteries Akku 12LC-260 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 275 Ah @20hr-rate to 1.8V per cell @25°C

Cells Per Unit 6

Weight ca. 74 kg +/- 3% Max. Discharge Current 2600 A (5 sec.) Internal Resistance ca. 3.5 m Ω

Operating Temperature Range Discharge: Charge: Storage:

Normal $-15^{\circ}\text{C} - 50^{\circ}\text{C} - 10^{\circ}\text{C} - 50^{\circ}\text{C} - 20^{\circ}\text{C} - 50^{\circ}\text{C}$

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.

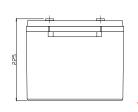
Terminal F14 (M8 bolt)

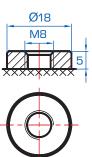
Container Material A.B.S. (UL94-HB)

Dimensions: 520 Length x 268 Width x 220 mm Height







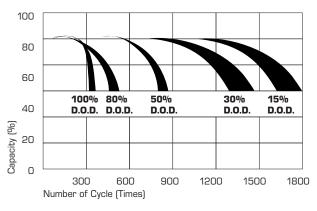




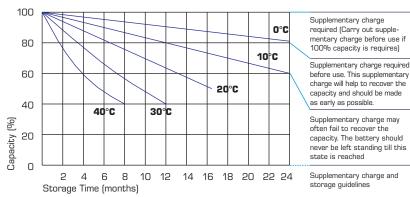
Constant current discharge characteristics: A (25°C)

5 Min.	10 Min.	15 Min.	30 Min.	1 HR	2 HR						
					2 NK	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
708.7	530.8	448.1	292.9	169.0	101.1	69.90	57.28	46.89	32.30	27.31	15.02
688.2	505.1	438.9	288.1	168.2	100.4	69.63	57.02	46.61	32.03	27.05	14.75
667.8	487.3	432.0	285.5	166.7	99.60	69.09	56.75	46.34	31.77	26.78	14.47
599.6	449.6	411.3	278.4	165.1	98.84	68.82	56.22	45.78	31.51	26.52	14.20
541.2	410.0	379.2	266.2	161.2	97.07	66.95	54.90	44.96	30.98	26.26	13.93
462.1	366.4	340.1	249.4	153.1	92.76	64.00	52.24	43.03	29.67	25.47	13.11
	688.2 667.8 599.6 541.2	688.2 505.1 667.8 487.3 599.6 449.6 541.2 410.0	688.2 505.1 438.9 667.8 487.3 432.0 599.6 449.6 411.3 541.2 410.0 379.2	688.2 505.1 438.9 288.1 667.8 487.3 432.0 285.5 599.6 449.6 411.3 278.4 541.2 410.0 379.2 266.2	688.2 505.1 438.9 288.1 168.2 667.8 487.3 432.0 285.5 166.7 599.6 449.6 411.3 278.4 165.1 541.2 410.0 379.2 266.2 161.2	688.2 505.1 438.9 288.1 168.2 100.4 667.8 487.3 432.0 285.5 166.7 99.60 599.6 449.6 411.3 278.4 165.1 98.84 541.2 410.0 379.2 266.2 161.2 97.07	688.2 505.1 438.9 288.1 168.2 100.4 69.63 667.8 487.3 432.0 285.5 166.7 99.60 69.09 599.6 449.6 411.3 278.4 165.1 98.84 68.82 541.2 410.0 379.2 266.2 161.2 97.07 66.95	688.2 505.1 438.9 288.1 168.2 100.4 69.63 57.02 667.8 487.3 432.0 285.5 166.7 99.60 69.09 56.75 599.6 449.6 411.3 278.4 165.1 98.84 68.82 56.22 541.2 410.0 379.2 266.2 161.2 97.07 66.95 54.90	688.2 505.1 438.9 288.1 168.2 100.4 69.63 57.02 46.61 667.8 487.3 432.0 285.5 166.7 99.60 69.09 56.75 46.34 599.6 449.6 411.3 278.4 165.1 98.84 68.82 56.22 45.78 541.2 410.0 379.2 266.2 161.2 97.07 66.95 54.90 44.96	688.2 505.1 438.9 288.1 168.2 100.4 69.63 57.02 46.61 32.03 667.8 487.3 432.0 285.5 166.7 99.60 69.09 56.75 46.34 31.77 599.6 449.6 411.3 278.4 165.1 98.84 68.82 56.22 45.78 31.51 541.2 410.0 379.2 266.2 161.2 97.07 66.95 54.90 44.96 30.98	688.2 505.1 438.9 288.1 168.2 100.4 69.63 57.02 46.61 32.03 27.05 667.8 487.3 432.0 285.5 166.7 99.60 69.09 56.75 46.34 31.77 26.78 599.6 449.6 411.3 278.4 165.1 98.84 68.82 56.22 45.78 31.51 26.52 541.2 410.0 379.2 266.2 161.2 97.07 66.95 54.90 44.96 30.98 26.26

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