12LC-225

12 V 243 Ah



Q-Batteries Akku 12LC-225 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 243 Ah @20hr-rate to 1.8V per cell @25°C

Cells Per Unit 6

Weight ca. 65 kg +/- 3% Max. Discharge Current 2250 A (5 sec.) Internal Resistance ca. 3.7 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

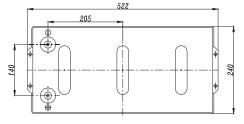
Self Discharge Valve Regulated Lead Acid (VRLA) batteries can be stored for

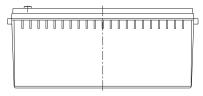
more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.

Terminal F14 (M8 bolt)

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

Dimensions: 522 Length x 240 Width x 223 mm Height









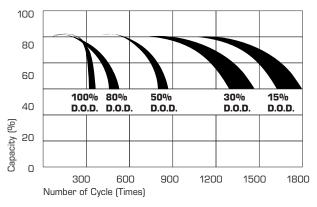




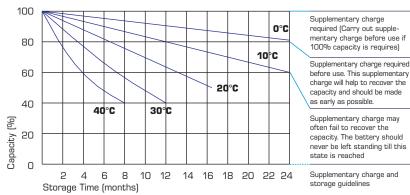
Constant current discharge characteristics: A (25°C)

5 Min.	10 Min.	15 Min.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
613.3	459.4	387.8	235.8	146.3	87.5	60.5	49.6	40.6	27.9	23.6	13.0
595.5	437.1	379.8	231.9	145.6	86.9	60.3	49.3	40.3	27.7	23.4	12.8
577.9	421.7	373.9	229.8	144.2	86.2	59.8	49.1	40.1	27.5	23.2	12.5
518.9	389.1	356.0	224.1	142.9	85.5	59.6	48.7	39.6	27.3	23.0	12.3
468.4	354.8	328.1	214.2	139.5	84.0	57.9	47.5	38.9	26.8	22.7	12.1
399.9	317:1	294.3	200.7	132.5	80.3	55.4	45.2	37.2	25.7	22.0	11.3
	613.3 595.5 577.9 518.9 468.4	613.3 459.4 595.5 4371 577.9 421.7 518.9 389.1 468.4 354.8	613.3 459.4 387.8 595.5 437.1 379.8 577.9 421.7 373.9 518.9 389.1 356.0 468.4 354.8 328.1	613.3 459.4 387.8 235.8 595.5 437.1 379.8 231.9 577.9 421.7 373.9 229.8 518.9 389.1 356.0 224.1 468.4 354.8 328.1 214.2	613.3 459.4 387.8 235.8 146.3 595.5 437.1 379.8 231.9 145.6 577.9 421.7 373.9 229.8 144.2 518.9 389.1 356.0 224.1 142.9 468.4 354.8 328.1 214.2 139.5	613.3 459.4 387.8 235.8 146.3 87.5 595.5 437.1 379.8 231.9 145.6 86.9 577.9 421.7 373.9 229.8 144.2 86.2 518.9 389.1 356.0 224.1 142.9 85.5 468.4 354.8 328.1 214.2 139.5 84.0	613.3 459.4 387.8 235.8 146.3 87.5 60.5 595.5 437.1 379.8 231.9 145.6 86.9 60.3 577.9 421.7 373.9 229.8 144.2 86.2 59.8 518.9 389.1 356.0 224.1 142.9 85.5 59.6 468.4 354.8 328.1 214.2 139.5 84.0 57.9	613.3 459.4 387.8 235.8 146.3 87.5 60.5 49.6 595.5 437.1 379.8 231.9 145.6 86.9 60.3 49.3 577.9 421.7 373.9 229.8 144.2 86.2 59.8 49.1 518.9 389.1 356.0 224.1 142.9 85.5 59.6 48.7 468.4 354.8 328.1 214.2 139.5 84.0 57.9 47.5	613.3 459.4 387.8 235.8 146.3 87.5 60.5 49.6 40.6 595.5 437.1 379.8 231.9 145.6 86.9 60.3 49.3 40.3 577.9 421.7 373.9 229.8 144.2 86.2 59.8 49.1 40.1 518.9 389.1 356.0 224.1 142.9 85.5 59.6 48.7 39.6 468.4 354.8 328.1 214.2 139.5 84.0 57.9 47.5 38.9	613.3 459.4 387.8 235.8 146.3 87.5 60.5 49.6 40.6 27.9 595.5 437.1 379.8 231.9 145.6 86.9 60.3 49.3 40.3 27.7 577.9 421.7 373.9 229.8 144.2 86.2 59.8 49.1 40.1 27.5 518.9 389.1 356.0 224.1 142.9 85.5 59.6 48.7 39.6 27.3 468.4 354.8 328.1 214.2 139.5 84.0 57.9 47.5 38.9 26.8	613.3 459.4 387.8 235.8 146.3 87.5 60.5 49.6 40.6 27.9 23.6 595.5 437.1 379.8 231.9 145.6 86.9 60.3 49.3 40.3 27.7 23.4 577.9 421.7 373.9 229.8 144.2 86.2 59.8 49.1 40.1 27.5 23.2 518.9 389.1 356.0 224.1 142.9 85.5 59.6 48.7 39.6 27.3 23.0 468.4 354.8 328.1 214.2 139.5 84.0 57.9 47.5 38.9 26.8 22.7

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