12LS-200

12 V 208 Ah

Design lifetime: 10 years



Q-Batteries 12LS-200 is an AGM battery, which is designed for standby applications such as fire-detecting-systems, UPS or burglar-systems.

Application:

UPS, security- and telecommunicationsystems etc.











Specification:

Voltage Per Unit 12 V

Capacity 200 Ah @20hr-rate to 1.75V per cell @25°C

Cells Per Unit 6

Weight ca. 60 kg +/- 3% Max. Discharge Current 2.000 A (5 sec.)

Internal Resistance ca. 4m Ω

Operating Temperature Range Discharge: Charge: Storage:

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

25°C ± 5°C Operating Temperature Range

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

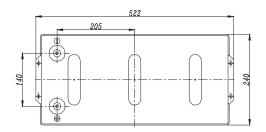
> more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.

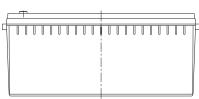
Terminal F10 (M8 bolt)

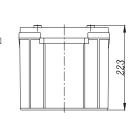
Container Material A.B.S. (UL94-HB)

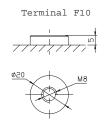
Dimensions:

522 Length x 240 Width x 223 mm Height







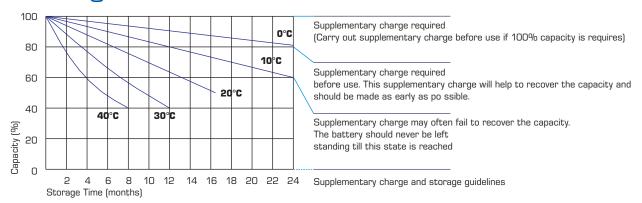




Constant current discharge characteristics: A (25°C)

5 Min.	10 Min.	15 Min.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
569.6	426.7	3// 7	200.9	12/1.8	7707	5238	12 23	35.06	23 N9	20.81	11.02
											10.81
											10.61
482.1	361.4	316.4	190.0	120.5	73.74	50.50	40.61	34.23	22.59	20.20	10.40
435.1	329.6	291.7	183.7	118.8	73.14	49.91	39.22	34.06	22.50	20.02	10.30
371.5	294.6	261.6	176.7	116.0	70.20	48.93	38.65	33.81	22.32	19.78	9.88
	569.6 553.2 536.8 482.1 435.1	569.6 426.7 553.2 406.0 536.8 391.7 482.1 361.4 435.1 329.6	569.6 426.7 344.7 553.2 406.0 337.6 536.8 391.7 332.3 482.1 361.4 316.4 435.1 329.6 291.7	569.6 426.7 344.7 200.9 553.2 406.0 337.6 198.4 536.8 391.7 332.3 195.3 482.1 361.4 316.4 190.0 435.1 329.6 291.7 183.7	569.6 426.7 344.7 200.9 124.8 553.2 406.0 337.6 198.4 123.2 536.8 391.7 332.3 195.3 122.0 482.1 361.4 316.4 190.0 120.5 435.1 329.6 291.7 183.7 118.8	569.6 426.7 344.7 200.9 124.8 77.07 553.2 406.0 337.6 198.4 123.2 75.52 536.8 391.7 332.3 195.3 122.0 74.72 482.1 361.4 316.4 190.0 120.5 73.74 435.1 329.6 291.7 183.7 118.8 73.14	569.6 426.7 344.7 200.9 124.8 77.07 52.38 553.2 406.0 337.6 198.4 123.2 75.52 51.41 536.8 391.7 332.3 195.3 122.0 74.72 50.95 482.1 361.4 316.4 190.0 120.5 73.74 50.50 435.1 329.6 291.7 183.7 118.8 7314 49.91	569.6 426.7 344.7 200.9 124.8 77.07 52.38 42.23 553.2 406.0 337.6 198.4 123.2 75.52 51.41 41.63 536.8 391.7 332.3 195.3 122.0 74.72 50.95 41.22 482.1 361.4 316.4 190.0 120.5 73.74 50.50 40.61 435.1 329.6 291.7 183.7 118.8 73.14 49.91 39.22	569.6 426.7 344.7 200.9 124.8 77.07 52.38 42.23 35.06 553.2 406.0 337.6 198.4 123.2 75.52 51.41 41.63 34.75 536.8 391.7 332.3 195.3 122.0 74.72 50.95 41.22 34.52 482.1 361.4 316.4 190.0 120.5 73.74 50.50 40.61 34.23 435.1 329.6 291.7 183.7 118.8 731.4 49.91 39.22 34.06	569.6 426.7 344.7 200.9 124.8 77.07 52.38 42.23 35.06 23.09 553.2 406.0 337.6 198.4 123.2 75.52 51.41 41.63 34.75 23.00 536.8 391.7 332.3 195.3 122.0 74.72 50.95 41.22 34.52 22.79 482.1 361.4 316.4 190.0 120.5 73.74 50.50 40.61 34.23 22.59 435.1 329.6 291.7 183.7 118.8 73.14 49.91 39.22 34.06 22.50	569.6 426.7 344.7 200.9 124.8 77.07 52.38 42.23 35.06 23.09 20.81 553.2 406.0 337.6 198.4 123.2 75.52 51.41 41.63 34.75 23.00 20.61 536.8 391.7 332.3 195.3 122.0 74.72 50.95 41.22 34.52 22.79 20.40 482.1 361.4 316.4 190.0 120.5 73.74 50.50 40.61 34.23 22.59 20.20 435.1 329.6 291.7 183.7 118.8 7314 49.91 39.22 34.06 22.50 20.02

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 0.3C
Constant Current (A)	-0.2C x 2h + 0.1C x 12h
Fast	-0.2C x 2h + 0.3C x 4.0h