agm standard



12LS-55

12 V 55 Ah Design lifetime: 10 years



Q-Batteries 12LS-55 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.	sta	AGM	UPS security			
Specification:						
Voltage Per Unit	12 V					
Capacity	55 Ah	@10hr-rate to '	1.8V per cell @25°C			
Cells Per Unit	6					
Weight	ca. 18 kg +/- 3%					
Max. Discharge Current	550 A (5 sec.)					
Internal Resistance	ca. 6m $\Omega$					
Operating Temperature Range Normal	Discharge: - 15°C – 50°C	Charge: -10°C – 50°C	Storage: - 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					

more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using. F11 (M6 bolt)

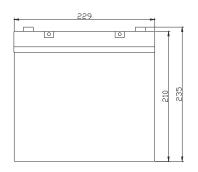
A.B.S. (UL94-HB)

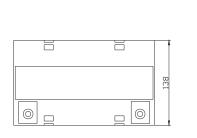
Dimensions:

Container Material

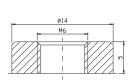
Terminal

229 Length x 138 Width x 235 mm Height









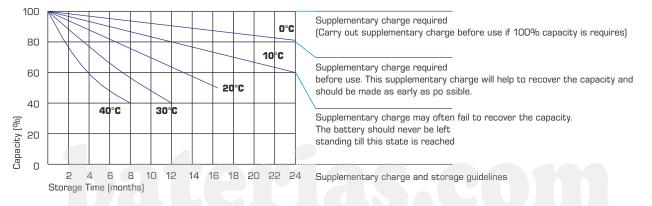
## Constant current discharge characteristics: A (25°C)

12LS-55

-BATTERIES

5 Min.	10 Min.	15 Min.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
184.3	135 .7	10 5.8	64 .46	35.75	21.38	14.76	12.23	10.30	7.033	5 .833	3.113
179.0	129 .1	103.6	63.34	35.59	21.22	14.71	12.17	10.24	6.976	5.777	3.056
173.7	124.5	101.97	62.17	35.26	21.06	14.59	12.12	10.17	6.919	5.721	2.999
155.9	114.9	97.09	61.70	34.93	20.90	14.54	12.00	10.05	6.861	5.665	2.943
140.7	104.8	89.50	60.65	34.10	20.52	14.14	11.72	9.872	6.747	5.609	2.886
120.2	93.7	80.28	56.78	32.40	19.61	13.52	11.15	9.448	6.461	5.441	2.716
	184.3 179.0 173.7 155.9 140.7	184.3135.7179.0129.1173.7124.5155.9114.9140.7104.8	184.3135.710 5.8179.0129.1103.6173.7124.5101.97155.9114.997.09140.7104.889.50	184.3135.710 5.864.46179.0129.1103.663.34173.7124.5101.976217155.9114.997.0961.70140.7104.889.5060.65	184.3135.710 5.864.4635.75179.0129.1103.663.3435.59173.7124.5101.9762.1735.26155.9114.997.0961.7034.93140.7104.889.5060.6534.10	184.3135.710 5.864.4635.7521.38179.0129.1103.663.3435.5921.22173.7124.5101.97621735.2621.06155.9114.997.0961.7034.9320.90140.7104.889.5060.6534.1020.52	184.3 135.7 10 5.8 64.46 35.75 21.38 14.76   179.0 129.1 103.6 63.34 35.59 21.22 14.71   173.7 124.5 101.97 6217 35.26 21.06 14.59   155.9 114.9 97.09 61.70 34.93 20.90 14.54   140.7 104.8 89.50 60.65 34.10 20.52 14.14	184.3135.710 5.864.4635.7521.3814.7612.23179.0129.1103.663.3435.5921.2214.7112.17173.7124.5101.9762.1735.2621.0614.5912.12155.9114.997.0961.7034.9320.9014.5412.00140.7104.889.5060.6534.1020.5214.1411.72	184.3 135.7 10 5.8 64.46 35.75 21.38 14.76 12.23 10.30   179.0 129.1 103.6 63.34 35.59 21.22 14.71 12.17 10.24   173.7 124.5 101.97 6217 35.26 21.06 14.59 1212 1017   155.9 114.9 97.09 61.70 34.93 20.90 14.54 12.00 10.05   140.7 104.8 89.50 60.65 34.10 20.52 14.14 11.72 9.872	184.3135.710 5.864.4635.7521.3814.7612.2310.307.033179.0129.1103.663.3435.5921.2214.71121710.246.976173.7124.5101.97621735.2621.0614.59121210.176.919155.9114.997.0961.7034.9320.9014.5412.0010.056.861140.7104.889.5060.6534.1020.5214.1411.729.8726.747	184.3 135.7 10 5.8 64.46 35.75 21.38 14.76 12.23 10.30 7.033 5.833   179.0 129.1 103.6 63.34 35.59 21.22 14.71 12.17 10.24 6.976 5.777   173.7 124.5 101.97 6217 35.26 21.06 14.59 12.12 101.7 6.919 5.721   155.9 114.9 97.09 61.70 34.93 20.90 14.54 12.00 10.05 6.861 5.665   140.7 104.8 89.50 60.65 34.10 20.52 14.14 11.72 9.872 6.747 5.609

## 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