



# 12LS-120

12V 120Ah

Design lifetime 10 Years



Q-Batteries Security Akku 12LS-120 is an AGM battery with VdS-approval. It is designed for stand-by applications such as burglar-systems or UPS-systems.

## Application:

burglar-systems, UPS-systems,  
fire-detecting-systems,  
telecommunication-systems

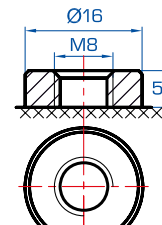
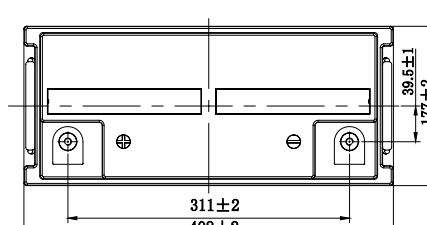
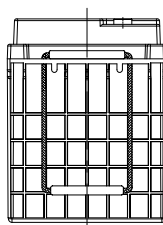
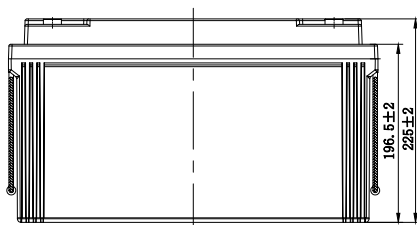


## Specification:

Voltage Per Unit	12 V		
Capacity	120 Ah (10 h) cell voltage 1.8V / cell		
Cells Per Unit	6		
Weight	ca. 38,0 kg +/- 3%		
Max. Discharge Current	960 A (5 sec.)		
Internal Resistance	ca. 3,2m Ω		
Operating Temperature Range	Discharge: - 15°C – 50°C	Charge: -10°C – 50°C	Storage: - 20°C – 50°C
Normal 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	F12		
Technology	AGM, Absorbent glass mat technology		
Container Material	A.B.S. (UL94-HB)		

## Dimensions:

409 Length x 176 Width x 225 mm Height



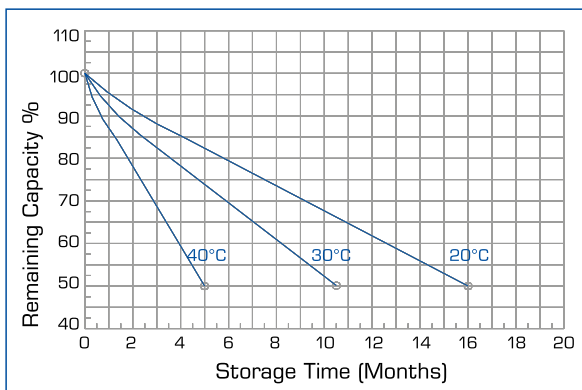
## Constant current discharge characteristics: A (25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	237.2	168.7	146.2	97.5	72.8	63.0	46.6	39.1	28.7	22.5	19.6	17.2	13.3	11.5	6.08
1.80V/cell	269.7	191.4	165.7	106.1	77.2	65.2	48.1	40.4	31.2	24.0	20.6	18.5	13.9	12.0	6.30
1.75V/cell	293.0	207.6	179.4	108.3	79.9	68.4	50.6	42.6	31.8	24.5	20.9	18.7	14.0	12.1	6.36
1.70V/cell	313.2	221.4	190.5	110.5	81.5	69.8	51.6	43.4	32.4	24.9	21.3	18.8	14.2	12.2	6.43
1.65V/cell	324.2	228.4	196.1	112.1	82.7	70.8	52.4	44.0	32.7	25.3	21.7	18.8	14.4	12.4	6.51
1.60V/cell	335.6	236.2	202.2	113.7	83.9	71.9	53.1	44.7	33.0	25.6	22.0	19.0	14.6	12.5	6.58

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

F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	443.0	317.3	276.9	186.3	140.0	121.8	90.3	76.1	56.1	44.2	38.5	34.1	26.3	22.8	12.1
1.80V/cell	495.5	354.9	309.7	201.2	147.4	125.4	92.9	78.2	60.6	47.0	40.3	36.4	27.6	23.8	12.5
1.75V/cell	528.9	378.8	330.5	203.8	151.8	131.0	97.2	82.0	61.6	47.7	40.9	36.6	27.7	24.0	12.6
1.70V/cell	556.0	398.2	347.5	206.1	153.7	133.0	98.7	83.3	62.6	48.4	41.5	36.7	28.1	24.3	12.8
1.65V/cell	565.0	404.7	353.1	207.6	155.1	134.2	99.7	84.2	62.9	48.9	42.2	36.8	28.4	24.5	12.9
1.60V/cell	572.9	410.4	358.1	208.5	155.9	135.2	100.5	84.9	63.2	49.3	42.6	36.9	28.7	24.8	13.0

## Storage characteristic:



## Charging Method:

Recharge after use, at least every 6th month:

Cyclic charging voltage  
14,5 to 14,9 V (25°C)

Float charging voltage (25°C)  
13,6 to 13,8 V (25°C)

Maximum charging current  
36A

Do not short circuit the battery.

## Capacity Factors with different Temperature:

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V & 12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V & 12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%