



# 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

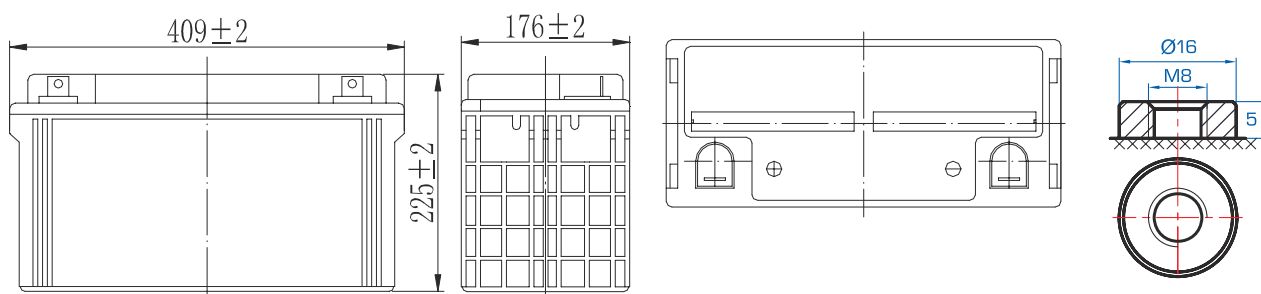


## Specification:

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 $\Omega$		
Operating Temperature Range	Discharge:	Charge:	Storage:
Normal	- 15°C – 50°C	-10°C – 50°C	- 20°C – 50°C
Operating Temperature Range	25°C $\pm$ 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



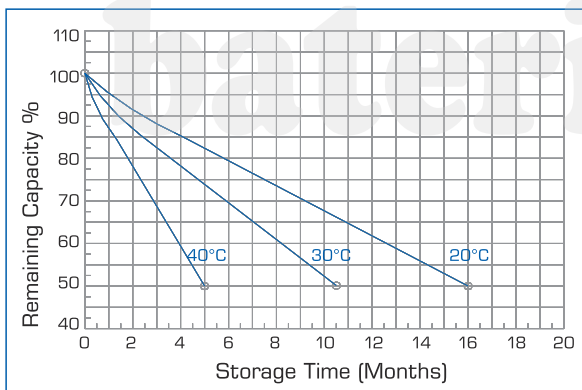
## Constant current discharge characteristics: A (25°C)

FV/Time	5min	10min	15min	20min	30min	45min	60min	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	416	277	227	181	129	95.8	78.1	43.8	31.5	22.0	14.3	11.7	6.41
1.65V	403	269	221	177	126	93.8	76.9	43.6	31.3	21.9	14.1	11.4	6.40
1.70V	387	258	213	171	122	91.0	75.0	43.2	31.1	21.8	13.9	11.2	6.38
1.75V	370	247	206	165	119	88.8	73.5	42.6	30.8	21.6	13.4	10.5	6.34
1.80V	349	233	195	156	115	85.5	71.2	41.5	29.9	21.0	13.0	10.3	6.30

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

FV/Time	5min	10min	15min	20min	30min	45min	60min	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	757	521	438	350	248	185	151	85.5	62.0	43.6	28.0	23.3	12.1
1.65V	734	506	427	342	243	181	149	85.0	61.6	43.4	27.8	23.3	11.8
1.70V	704	485	411	329	236	176	145	84.2	61.2	43.1	27.6	23.1	11.7
1.75V	674	464	397	318	230	171	142	83.0	60.8	42.8	27.5	23.0	11.6
1.80V	636	438	376	301	222	165	138	80.9	58.9	41.5	26.7	22.8	11.6

## Storage characteristic:



## Charging Method:

Recharge after use, at least every 6th month:

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

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

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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%