



## 12LS-1.2

12V 1.2Ah

VdS G112106

Design lifespan 5 years



The Q-Batteries LS series are valve-regulated and maintenance-free AGM batteries (absorbent glass mat technology) that were particularly developed for stand-by applications, such as in security technology, fire alarm technology, UPS and UPS .

The batteries are characterized by excellent energy storage properties and high reliability. Our batteries have VdS approval for all relevant sizes.

### Application areas:

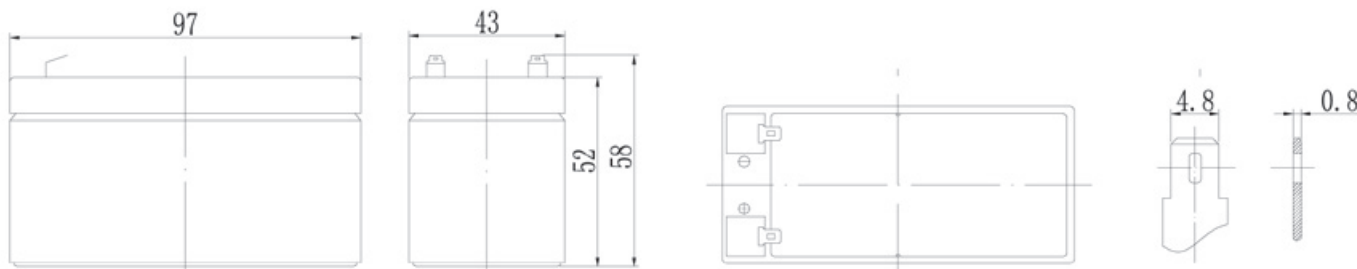
Security technology, fire detection technology, alarm technology, UPS, UPS, emergency power supply, industry, telecommunications, leisure/hobby



### Specifications:

Tension	12V		
capacity	1.2Ah(at 20 hours discharge up to a final voltage of 1.8 V per cell)		
cell number	6		
Weight	approx. 0.6 kg +/-		
Max. current	3kg 18 A (5 sec.)		
Internal resistance	approx. 95m $\Omega$		
Temperature ranges	Discharge: - 15°C - 50°C	Charge: - 10°C - 50°C	Storage: - 20°C - 50°C
Normal working temperatures	25°C $\pm$ 5°C		
self-discharge	Can be stored for more than 6 months at approx. 25°C. Self-discharge is less than 3% per month at 25°C. Batteries should be charged before use.		
connections	F1 (FastOn connector 4.8 mm)		
Housing	ABS (UL94-HB)		

**Dimensions:** 97mm length x 43mm width x 52mm (max 58) height



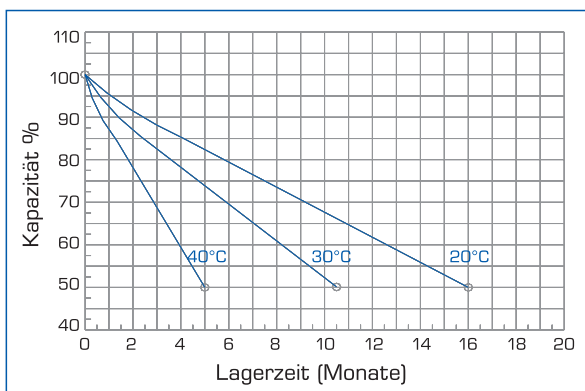
## Discharge behavior at constant current:A (25°C)

FV/Time	5 mins	10 mins	15 mins	30 mins	1 HR	3 HR	5HR	10HR	20HR
9.60V	5.00	3.20	2.50	1.45	0.82	0.33	0.22	0.10	0.06
10.2V	4.75	3.04	2.40	1.39	0.79	0.33	0.22	0.10	0.06
10.8V	4.47	2.86	2.28	1.32	0.75	0.32	0.21	0.12	0.06

## Discharge behavior at constant current:Watts (25°C)

FV/Time	5 min	10 min	15 min	30 min	1 HR	3 HR	5HR	10HR	20HR
9.60V	55.8	36.1	28.5	16.6	9.50	3.92	2.63	1.44	0.72
10.2V	53.0	34.3	27.4	15.9	9.15	3.92	2.63	1.44	0.72
10.8V	49.9	32.3	26.0	15.1	8.69	3.80	2.51	1.44	0.72

## Selbstentladungseigenschaften :



## Akku laden :

mindestens alle sechs Monate  
(bei einer Lagerung von ca. 25°C)

- Konstante Spannung (V)  
-0.2C x 2h + 2.4-2.45V/Cell x 24h, max. Current 0.3CA
- Konstanter Strom (A)  
-0.2C x 2h + 0.1CA x 12h
- Schnelligkeit  
-0.2C x 2h + 0.3CA x 4.0h

## Kapazität in Abhängigkeit von der Temperatur :

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

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