



## 12LS-17

12V 17Ah

VdS G112073

Design lifetime 5 years



Q-Batteries Security Akku 12LS-17 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

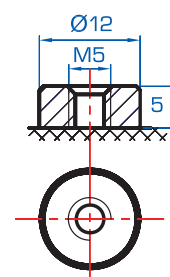
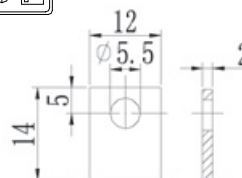
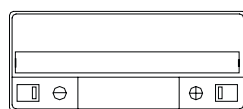
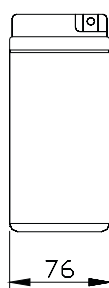
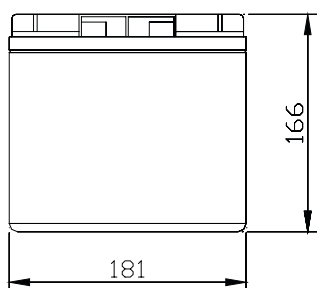


### Specification:

Voltage Per Unit	12 V		
Capacity	17 Ah (20 h) cell voltage 1.75V / cell		
Cells Per Unit	6		
Weight	ca. 5.7 kg +/- 3%		
Max. Discharge Current	204 A (5 sec.)		
Internal Resistance	ca. 17m $\Omega$		
Operating Temperature Range Normal	Discharge: - 15°C – 50°C	Charge: -10°C – 50°C	Storage: - 20°C – 50°C
Operating Temperature Range	25°C $\pm$ 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	F3, F13		
Container Material	A.B.S. (UL94-HB)		

### Dimensions:

181 Length x 76 Width x 166 mm Height



F13 (Schraubanschluss M5)

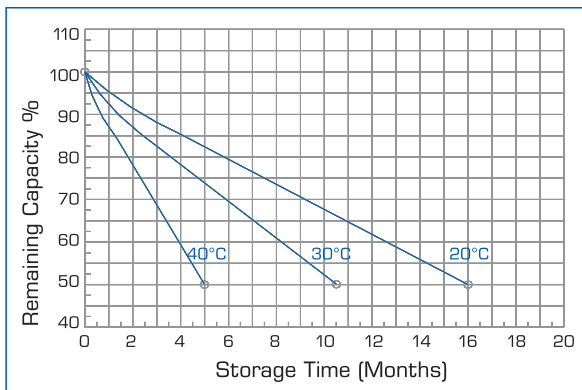
## Constant current discharge characteristics: A (25°C)

F.V/Time	5 Min.	10 Min.	15 Min.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	10 HR	20 HR
9,60 V	49,9	45,3	39,4	21,4	11,5	6,47	4,42	3,61	2,13	1,67	0,88
10,2 V	55,5	43,6	36,8	20,8	11,4	6,42	4,35	3,54	3,07	1,66	0,88
10,8 V	49,3	38,3	31,2	19,4	11,0	6,28	4,14	3,26	2,73	1,56	0,82

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

F.V/Time	5 Min.	10 Min.	15 Min.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	10 HR	20 HR
9,60 V	609	496	436	244	128	76,1	52,0	42,5	36,1	20,7	10,5
10,2 V	602	482	373	238	127	76,1	51,4	41,8	35,4	20,4	10,3
10,8 V	550	432	357	225	122	74,1	49,2	38,7	30,9	19,6	9,92

## Storage characteristic:



## 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

## 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%