



## 12LS-250

12V 250Ah

Design lifetime 10 years



Q-Batteries Security Akku 12LS-250 is an AGM battery with VdS-approval. It is designed for stand-by applications such as burglar-systems or UPS-systems.

### Application:

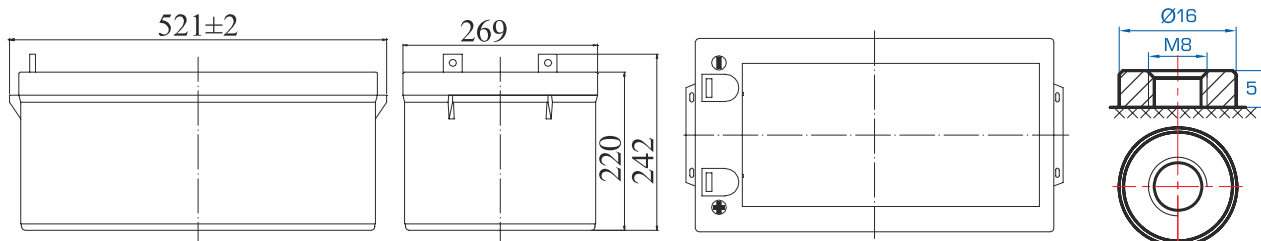
burglar-systems, UPS-systems,  
fire-detecting-systems,  
telecommunication-systems

### Specification:

Voltage Per Unit	12 V		
Capacity	250 Ah (10 h) cell voltage 1.8V / cell		
Cells Per Unit	6		
Weight	ca. 77,0 kg +/- 3%		
Max. Discharge Current	2.500 A (5 sec.)		
Internal Resistance	ca. 2,5m $\Omega$		
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:

521 Length x 268 Width x 223 mm Height



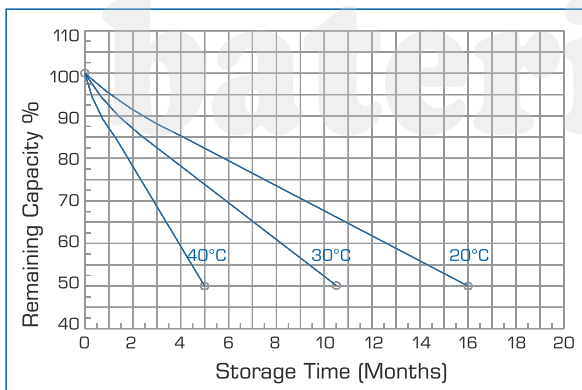
## Constant current discharge characteristics: A (25°C)

F.V/Time	5 min	10min	15min	20min	30min	45min	60min	2HR	3HR	4HR	5HR
9,60V	971	588	474	380	269	200	164	91,4	65,5	52,8	45,9
9,90V	944	569	463	370	264	196	161	90,8	65,1	52,5	45,6
10,2V	906	540	446	356	255	190	156	90	64,8	52,1	45,4
10,5V	871	518	431	345	249	186	154	88,6	64,3	51,8	45
10,8V	819	489	408	326	240	179	149	86,4	62,4	50,3	43,6

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

F.V/Time	5 min	10min	15min	20min	30min	45min	60min	2HR	3HR	4HR	5HR
9,60V	1794	1125	915	733	519	386	315	179	129	104	90,9
9,90V	1743	1099	894	715	509	379	310	178	129	103	90,4
10,2V	1669	1049	860	689	493	368	303	175	128	103	89,8
10,5V	1604	1006	831	665	481	359	296	173	126	102	89,1
10,8V	1520	953	788	630	464	345	288	169	123	98,9	86,4

## 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  
75A

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%