



12LS-2.1

12V 2,3Ah

VdS G118003

Design lifetime 5 years



Q-Batteries Security Akku 12LS-2.1 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

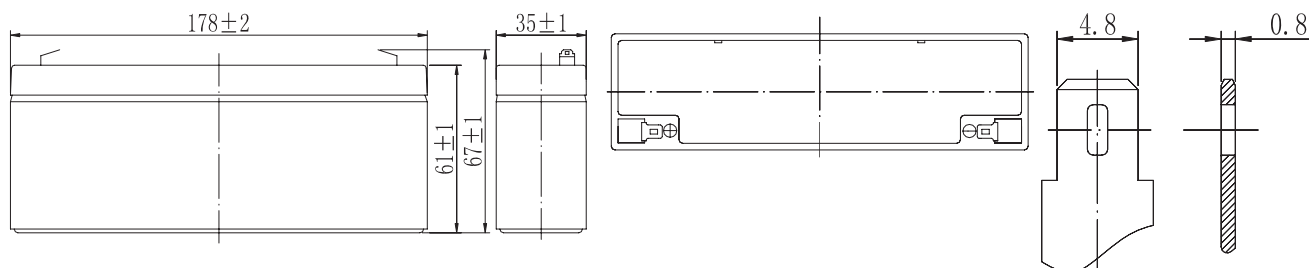


Specification:

Voltage Per Unit	12 V		
Capacity	2.3 Ah (10 h) cell voltage 1.8V / cell		
Cells Per Unit	6		
Weight	ca. 1.0 kg +/- 3%		
Max. Discharge Current	32 A (5 sec.)		
Internal Resistance	ca. 60m Ω		
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	F1		
Technology	AGM, Absorbent glass mat technology		
Container Material	A.B.S. (UL94-HB)		

Dimensions:

178 Length x 35 Width x 61 mm (max. 67) Height



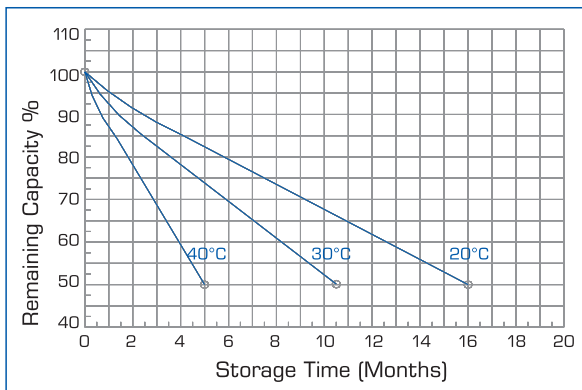
Constant current discharge characteristics: A (25°C)

FV/Time	5min	10min	15min	30min	60min	2HR	3HR	4HR	5HR	10HR	20HR
9,60V	5,52	4,37	2,44	1,5	0,82	0,59	0,47	0,4	0,26	0,22	0,117
9,90V	5,35	4,27	2,39	1,47	0,81	0,58	0,47	0,4	0,26	0,22	0,116
10,2V	5,13	4,11	2,32	1,44	0,81	0,58	0,46	0,39	0,26	0,22	0,116
10,5V	4,91	3,97	2,26	1,41	0,79	0,58	0,46	0,39	0,25	0,21	0,115
10,8V	4,64	3,76	2,18	1,36	0,77	0,56	0,45	0,38	0,25	0,21	0,113

Constant current discharge characteristics: Watt (25°C)

FV/Time	5min	10min	15min	30min	60min	2HR	3HR	4HR	5HR	10HR	20HR
9,60V	62,3	49,8	27,9	17,3	9,56	6,97	5,59	4,76	3,1	2,61	1,4
9,90V	60,4	48,6	27,4	17,1	9,5	6,93	5,56	4,73	3,09	2,6	1,4
10,2V	57,9	46,8	26,5	16,6	9,42	6,88	5,52	4,7	3,05	2,58	1,39
10,5V	55,4	45,2	25,9	16,3	9,28	6,83	5,48	4,67	3,03	2,57	1,38
10,8V	52,3	42,8	24,9	15,8	9,04	6,63	5,31	4,53	2,95	2,52	1,35

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
0,63A

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%