



12LS-2.1

12V 2,1Ah

VdS G112107

Designlebensdauer 5 Jahre



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

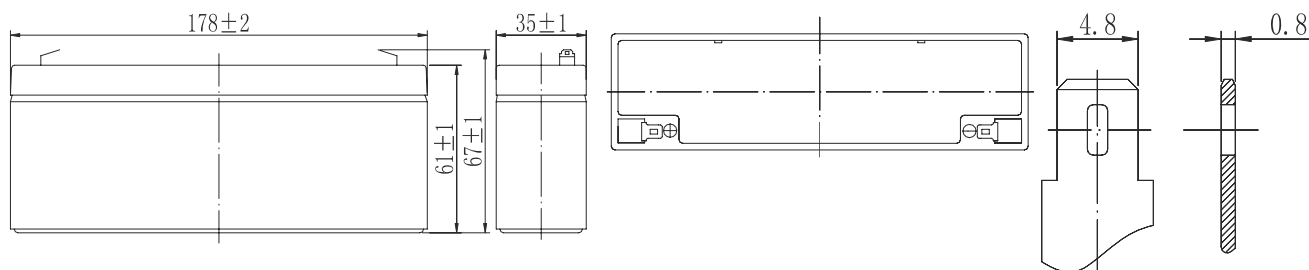


Specification:

Voltage Per Unit	12 V		
Capacity	2,1 Ah (10 h) cell voltage 1.8V / cell		
Cells Per Unit	6		
Weight	ca. 1.0 kg +/- 3kg		
Max. Discharge Current	32 A (5 sec.)		
Internal Resistance	ca. 60m Ω		
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	F1		
Container Material	A.B.S. (UL94-HB)		

Dimensions:

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



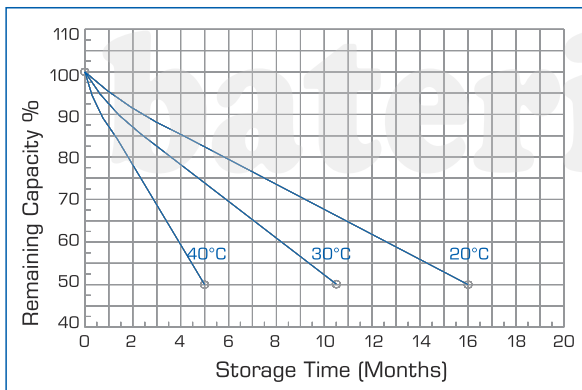
Constant current discharge characteristics: A (25°C)

FV/Time	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	8,74	5,52	4,37	2,44	1,50	0,82	0,59	0,47	0,40	0,19	0,105
10,2 V	8,13	5,13	4,11	2,32	1,44	0,81	0,58	0,46	0,39	0,19	0,106
10,8 V	7,34	4,64	3,76	2,18	1,36	0,77	0,56	0,45	0,38	0,20	0,108

Constant current discharge characteristics: Watt (25°C)

FV/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	97,5	62,3	49,8	27,9	17,3	9,56	6,97	5,59	4,76	2,65	1,38
10,2 V	90,7	57,6	46,8	26,5	16,6	9,42	6,88	5,52	4,70	2,53	1,29
10,8 V	81,9	52,3	42,8	24,9	15,8	9,04	6,63	5,31	4,53	2,30	1,26

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%