



12LS-12

12V 12Ah

VdS G118005

Design lifetime 5 years



Q-Batteries Security Akku 12LS-12 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

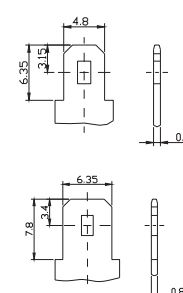
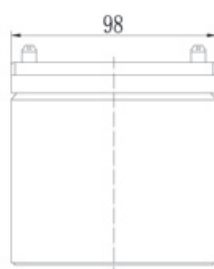
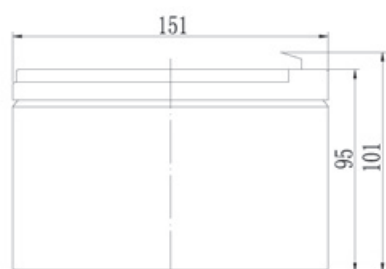


Specification:

Voltage Per Unit	12 V		
Capacity	11,8 Ah (20 h) cell voltage 1.8V / cell		
Cells Per Unit	6		
Weight	ca. 3,8 kg +/- 3%		
Max. Discharge Current	180 A (5 sec.)		
Internal Resistance	ca. 19m 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, F2		
Technology	AGM, Absorbent glass mat technology		
Container Material	A.B.S. (UL94-HB)		

Dimensions:

151 Length x 98 Width x 95 mm (max. 101) Height



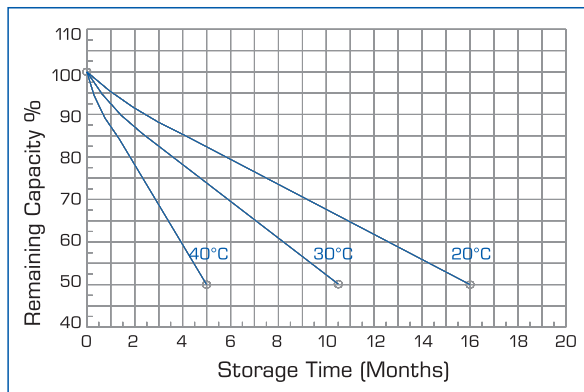
Constant current discharge characteristics: A (25°C)

FV/Time	5min	10min	15min	30min	60min	2HR	3HR	4HR	5HR	10HR	20HR
9,60V	28,8	22,8	12,7	7,8	5,74	3,06	2,45	2,08	1,35	1,13	0,61
9,90V	27,9	22,3	12,5	7,68	5,67	3,04	2,43	2,07	1,34	1,13	0,61
10,2V	26,8	21,4	12,1	7,49	5,55	3,02	2,42	2,05	1,33	1,12	0,6
10,5V	25,6	20,7	11,8	7,34	5,45	3	2,4	2,04	1,32	1,12	0,6
10,8V	24,2	19,6	11,4	7,11	5,3	2,91	2,33	1,98	1,28	1,09	0,59

Constant current discharge characteristics: Watt (25°C)

FV/Time	5min	10min	15min	30min	60min	2HR	3HR	4HR	5HR	10HR	20HR
9,60V	325	260	146	90,3	66,6	36,4	29,2	24,8	16,2	13,6	7,31
9,90V	315	254	143	89	65,8	36,1	29	24,7	16,1	13,5	7,28
10,2V	302	244	138	86,7	64,5	35,9	28,8	24,5	16	13,5	7,24
10,5V	289	236	135	85	63,4	35,6	28,6	24,4	15,8	13,4	7,2
10,8V	273	224	130	82,4	61,6	34,6	27,7	23,6	15,4	13,1	7,06

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
3,6A

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%