Q-BATTERIES QUALITY SECURITY

12LS-2.9

12V 2,9Ah

Design lifetime 5 years

Q-Batteries Security Akku 12LS-2.9 is an AGM battery. It is designed for stand-by applications such as burglar-systems or UPS-systems.

Application:

UPS, security- and telecommunicationsystems etc.

AGM/Bleivlies | Standardtyp | USV | Sicherheitstechnik | Telekommunikation

Specification:

Voltage Per Unit	12 V	
Capacity	2.9 Ah	@20hr-rate to 1.75V per cell @25°C
Cells Per Unit	6	
Weight	ca. 1.05 kg +/- 3kg	
Max. Discharge Current	29 A (5 sec.)	
Internal Resistance	ca. 42m Ω	

	Discharge:	Charge:	Storage:
Operating Temperature Range Normal	- 15°C – 50°C	-10°C – 50°C	- 20°C – 50°C

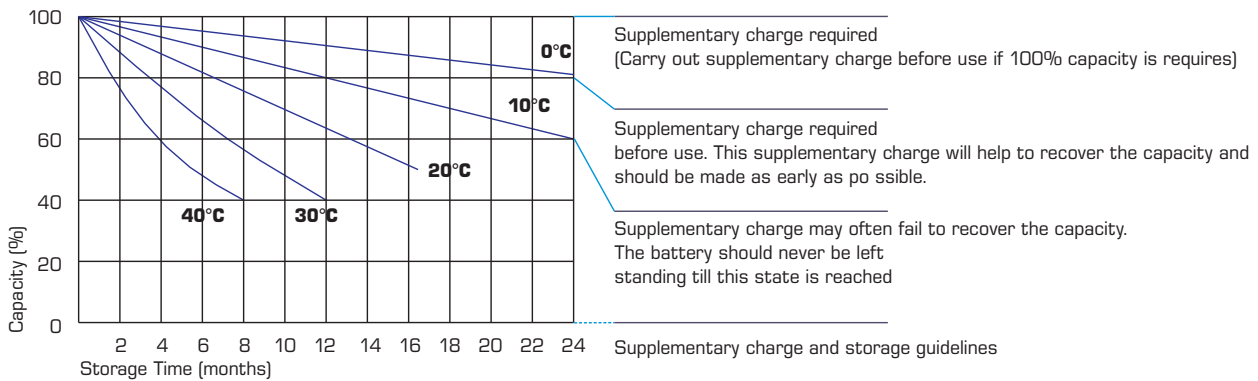|	
Operating Temperature Range	25°C ± 5°C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	F1
Container Material	A.B.S. (UL94-HB)

Dimensions:

79 Length x 56 Width x 99 mm Height

79±1   56±1   99±1   105±1   4.8   0.8
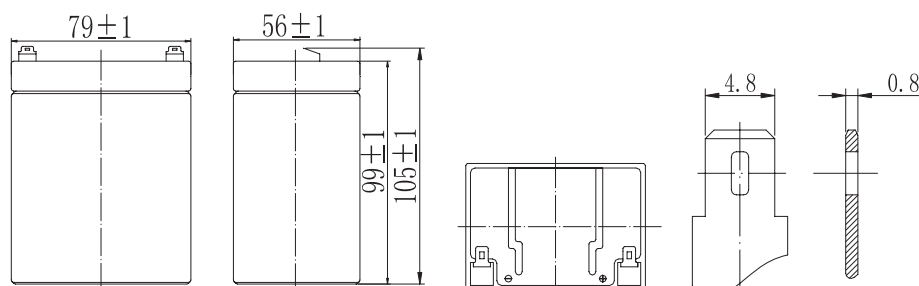
Constant current discharge characteristics: A (25°C)

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
9.60V	11.0	6.96	5.51	3.07	1.89	1.03	0.74	0.59	0.50	0.27	0.147
9.90V	10.7	6.75	5.38	3.01	1.86	1.02	0.74	0.59	0.50	0.27	0.147
10.2V	10.2	6.47	5.18	2.92	1.81	1.02	0.73	0.58	0.50	0.27	0.146
10.5V	9.81	6.19	5.00	2.85	1.77	1.00	0.73	0.58	0.49	0.27	0.145
10.8V	9.26	5.85	4.74	2.75	1.72	0.97	0.70	0.56	0.48	0.26	0.142

Storage characteristic:

Supplementary charge required
(Carry out supplementary charge before use if 100% capacity is requires)

Supplementary charge required
before use. This supplementary charge will help to recover the capacity and should be made as early as po ssible.

Supplementary charge may often fail to recover the capacity.
The battery should never be left
standing till this state is reached

Supplementary charge and storage guidelines

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	6V & 12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
Battery	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM	6V & 12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
Battery	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

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