



## 12LS-134

12V 134Ah

Design lifetime 10 years

The Q-Batteries LS series are valve regulated and maintenance-free AGM batteries (Absorbent glass mat technology), which have been developed especially for stand-by applications, such as in security technology, fire alarm technology or UPS. The batteries are characterized by excellent energy storage properties and a high level of reliability. The Q-Batteries Akku 12LS-134 has a VdS-approval.

### Application:

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

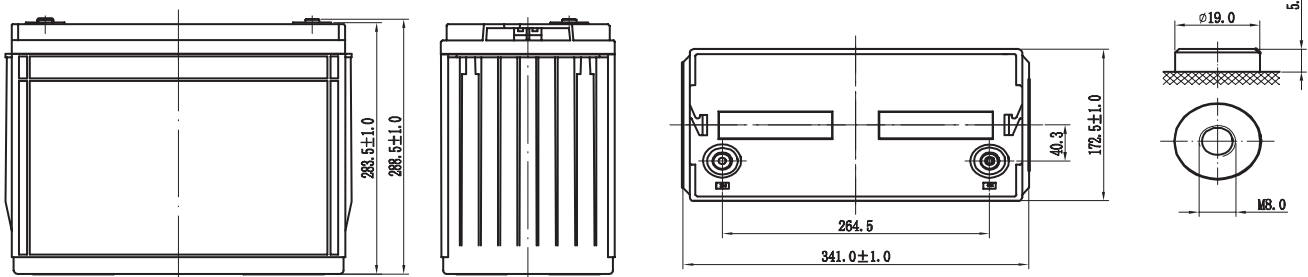


### Specification:

Voltage Per Unit	12 V		
Capacity	134 Ah (10 h) cell voltage 1.8V / cell		
Cells Per Unit	6		
Weight	ca. 40 kg +/- 5%		
Max. Discharge Current	108 A (5 sec.)		
Internal Resistance	ca. 5m $\Omega$		
Operating Temperature Range	Discharge:	Charge:	Storage:
Normal	- 20°C ~ 60°C	-10°C ~ 60°C	-20°C ~ 60°C
Operating Temperature Range	20°C $\pm$ 5°C		
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored at approx. 20°C for up to 6 months. Self-discharge ratio less than 3% per month at 20°C. Please charge batteries before using.		
Terminal	F12 (M8)		
Technology	AGM, Absorbent glass mat technology		
Container Material	A.B.S. (UL94-HB)		

### Dimensions:

341 Length x 173 Width x 283 mm (max. 287) Height



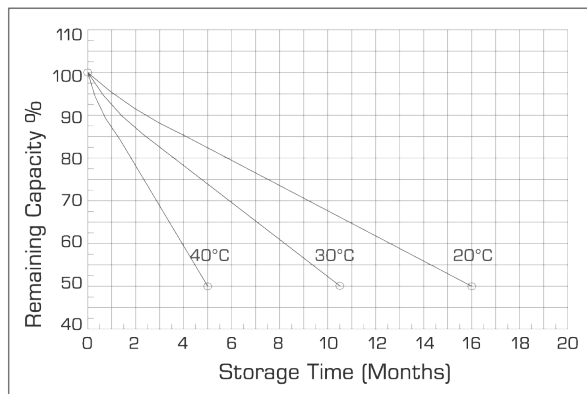
## Constant current discharge characteristics: A (25°C)

F.V/Time	10min	15min	30min	45min	1hr	3hr	5hr	10hr
1.60V	314	248	147	107	86.5	38.2	25.6	13.6
1.65V	292	237	145	105	84.3	37.4	25.0	13.6
1.70V	280	231	142	102	82.1	36.8	24.3	13.5
1.75V	257	214	139	99.8	80.2	36.1	23.6	13.5
1.80V	235	197	134	96.7	78.0	35.2	23.0	13.4

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

F.V/Time	10min	15min	30min	45min	1hr	2hr	3hr	5hr
1.60V	566	474	287	206	163	94.6	71.8	47.4
1.65V	529	433	261	200	158	92.2	70.3	47.0
1.70V	512	427	258	195	154	90.6	69.5	45.9
1.75V	483	414	254	192	152	89.5	68.6	44.8
1.80V	448	391	247	189	150	88.7	68.2	44.0

## Storage characteristic:



## Charging Method:

Recharge after use, at least every 6th month:

Cyclic charging voltage  
2,40 – 2,45V (20°C)

Float charging voltage (25°C)  
2,20 – 2,30V (20°C)

Maximum charging current  
40,2A

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%