



12LS-80

12 V 82 Ah

Design lifetime: 10 years



Q-Batteries 12LS-80 is an AGM battery, which is designed for standby applications such as fire-detecting-systems, UPS or burglar-systems.

Application:

UPS, security- and telecommunicationsystems etc.

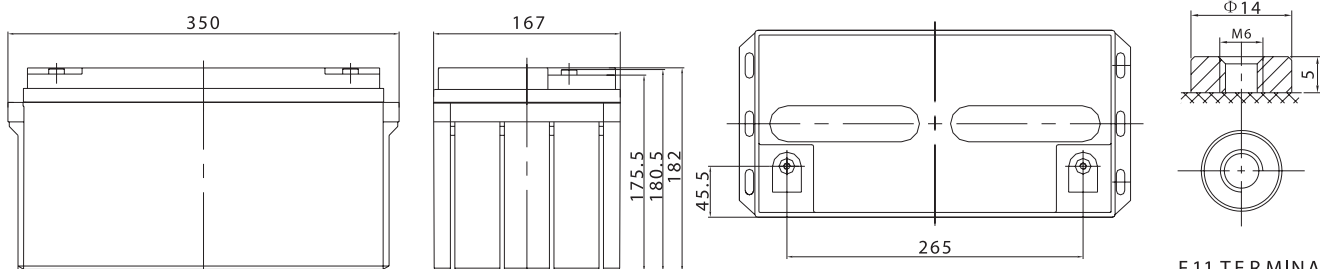


Specification:

Voltage Per Unit	12 V		
Capacity	82 Ah	@20hr-rate to 1.8V per cell @25°C	
Cells Per Unit	6		
Weight	ca. 24,0 kg +/- 3%		
Max. Discharge Current	800 A (5 sec.)		
Internal Resistance	ca. 5,5m 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	F11 (M6 bolt)		
Container Material	A.B.S. (UL94-HB)		

Dimensions:

350 Length x 167 Width x 180 mm Height

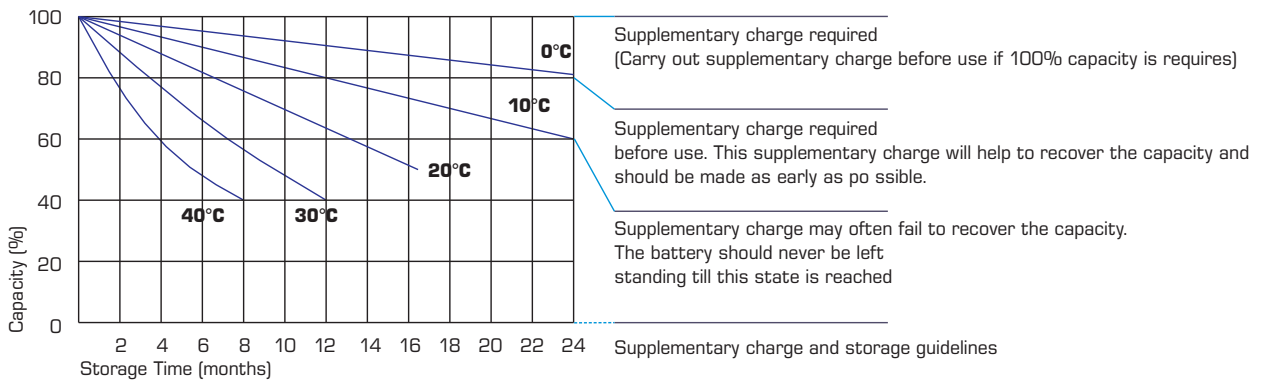


F11 TERMINAL

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	8 HR	10 HR	20 HR
9.60 V	268.0	197.4	153.8	93.8	52.0	31.1	21.5	17.8	15.0	10.2	8.48	4.53
10.0 V	260.3	187.8	150.7	92.1	51.8	30.9	21.4	17.7	14.9	10.1	8.40	4.44
10.2 V	252.6	181.2	148.3	90.4	51.3	30.6	21.2	17.6	14.8	10.1	8.32	4.36
10.5 V	226.8	167.2	141.2	89.7	50.8	30.4	21.1	17.5	14.6	10.0	8.24	4.28
10.8 V	204.7	152.4	130.2	88.2	49.6	29.9	20.6	17.0	14.4	9.8	8.16	4.20
11.1 V	174.8	136.2	116.8	82.6	47.1	28.5	19.7	16.2	13.7	9.4	7.91	3.95

Storage characteristic:



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%

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