agm standard



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.

AGM/

Bleivlies

USV

Application:

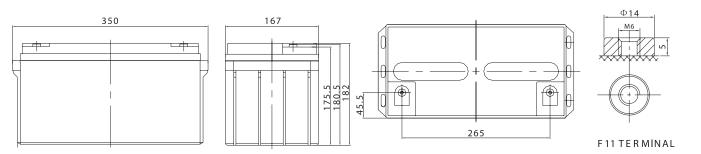
UPS, security- and telecommunicationsystems etc.

Specification:

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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%	Ö				
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 ± 5°C					
Self Discharge	more than 6 mont	hs at 25°C. Self-o	atteries can be stored for discharge ratio less than rge batteries before using.			
Terminal	F11 (M6 bolt)					
Container Material	A.B.S. (UL94-HB)					

Dimensions:

350 Length x 167 Width x 180 mm Height



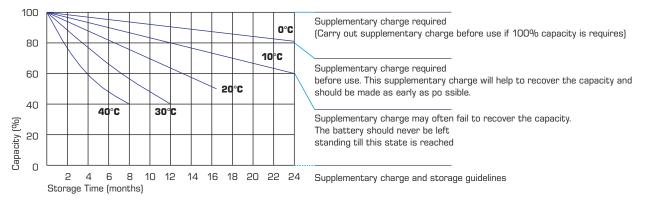
Constant current discharge characteristics: A (25°C)

12LS-80

-BATTERIES

5 Min.	10 Min.	15 Min.	30 Min.	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
268.0	197.4	153.8	93.8	52.0	31.1	21.5	17.8	15.0	10.2	8.48	4.53
260.3	187.8	150.7	92.1	51.8	30.9	21.4	17.7	14.9	10.1	8.40	4.44
252.6	181.2	148.3	90.4	51.3	30.6	21.2	17.6	14.8	10.1	8.32	4.36
226.8	167.2	141.2	89.7	50.8	30.4	21.1	17.5	14.6	10.0	8.24	4.28
204.7	152.4	130.2	88.2	49.6	29.9	20.6	17.0	14.4	9.8	8.16	4.20
174.8	136.2	116.8	82.6	47.1	28.5	19.7	16.2	13.7	9.4	7.91	3.95
	268.0 260.3 252.6 226.8 204.7	268.0197.4260.3187.8252.6181.2226.8167.2204.7152.4	268.0197.4153.8260.3187.8150.7252.6181.2148.3226.8167.2141.2204.7152.4130.2	268.0197.4153.893.8260.3187.8150.792.1252.6181.2148.390.4226.8167.2141.289.7204.7152.4130.288.2	268.0197.4153.893.852.0260.3187.8150.792.151.8252.6181.2148.390.451.3226.8167.2141.289.750.8204.7152.4130.288.249.6	268.0197.4153.893.852.0311260.3187.8150.792.151.830.9252.6181.2148.390.451.330.6226.8167.2141.289.750.830.4204.7152.4130.288.249.629.9	268.0 197.4 153.8 93.8 52.0 311 21.5 260.3 187.8 150.7 92.1 51.8 30.9 21.4 252.6 181.2 148.3 90.4 51.3 30.6 21.2 226.8 167.2 141.2 89.7 50.8 30.4 21.1 204.7 152.4 130.2 88.2 49.6 29.9 20.6	268.0197.4153.893.852.031121.517.8260.3187.8150.792.151.830.921.417.7252.6181.2148.390.451.330.621.217.6226.8167.2141.289.750.830.421.117.5204.7152.4130.288.249.629.920.617.0	268.0 197.4 153.8 93.8 52.0 311 21.5 17.8 15.0 260.3 187.8 150.7 92.1 51.8 30.9 21.4 17.7 14.9 252.6 181.2 148.3 90.4 51.3 30.6 21.2 17.6 14.8 226.8 167.2 141.2 89.7 50.8 30.4 21.1 17.5 14.6 204.7 152.4 130.2 88.2 49.6 29.9 20.6 17.0 14.4	268.0197.4153.893.852.031121.517.815.010.2260.3187.8150.792.151.830.921.417.714.910.1252.6181.2148.390.451.330.621.217.614.810.1226.8167.2141.289.750.830.421.117.514.610.0204.7152.4130.288.249.629.920.617.014.49.8	268.0197.4153.893.852.031121.517.815.010.28.48260.3187.8150.792.151.830.921.417.714.910.18.40252.6181.2148.390.451.330.621.217.614.810.18.32226.8167.2141.289.750.830.421.117.514.610.08.24204.7152.4130.288.249.629.920.617.014.49.8816

Storage characteristic:



Capacity Factors with different Temperature:

Batte	ery 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