TOPIN 12V1.3Ah

12TP1.3

- SSL approved
- Case and cover made of high quality ABS
- Freedom from electrolyte maintenance
- Not restricted for air or surface transport
- Each cell is individually valved
- Multi cell design for economy of installation and maintenance
- Lead Calcium Alloy grids for minimal gassing and ease of recycling
- Absorbent Glass Matt (AGM) technology for efficient gas recombination of up to 99%

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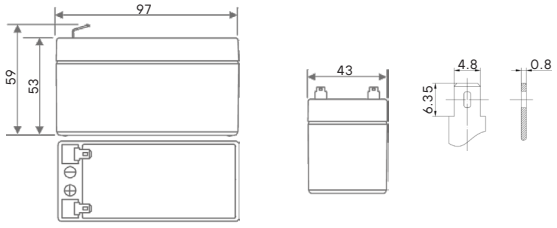
VALEN Power

12TP1.3

BATTERY SPECIFICATIONS

Dimensions

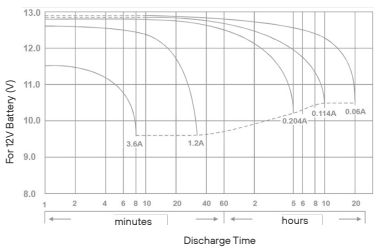


Specifications

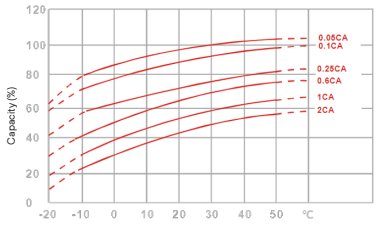
Nominals Voltage	12V
Number of Cells	6
Design life	10 Years
Normal Capacity 25°	
20 Hr rate (10.5V)	1.3Ah
10 Hr rate (10.5V)	1.21Ah
5 Hr rate (10.5V)	1.13Ah
CCA at -18°C	NA
Dimensions	97(L) x 43(W) x 53(H)mm
Weight	0.564kg
Terminal	F1
Torque Setting	NA
Charge Voltage	Cycle: 14.4 - 14.6V at 25°C Float: 13.5 - 13.8V at 25°C
Internal Resistance	75.4mΩ 25°C - Fully charged Battery
Electrolyte	Sulphuric acid
Operating Temperature	-20°C to +60°C

TOPIN 12V1.3Ah

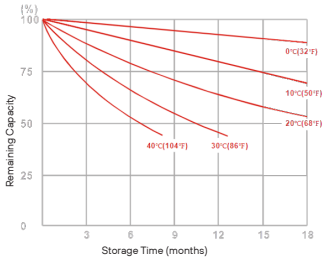
Discharge Time vs Discharge Current (25°C)



Effect of Temperature on Capacity (25°C)

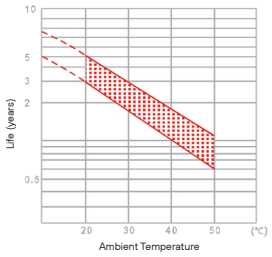


Capacity Retention Characteristic

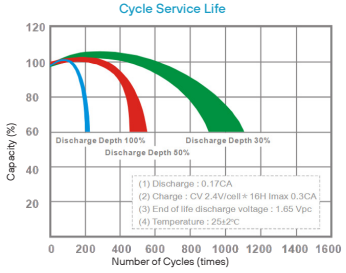


Temperature

Trickle (or float) Service Life



Cycle Service Life



(However it is recommended that the batteries be operated in the temperature range of 20 to 30°C to obtain full life and optimum performance.)

Specifications subject to change without notice.

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PERFORMANCE DATA

12TP1.3

Discharge Constant Power (Watts at 25˚C)

End Voltage / Time		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	7.18	7.82	8.27	8.65	8.80	8.98	9.28
10	min	4.62	5.00	5.30	5.52	5.58	5.67	5.77
15	min	3.65	3.87	4.05	4.20	4.25	4.32	4.38
30	min	2.15	2.25	2.32	2.37	2.38	2.42	2.45
60	min	1.32	1.39	1.43	1.47	1.48	1.50	1.52
120	min	0.747	0.808	0.847	0.875	0.887	0.900	0.915
180	min	0.533	0.573	0.602	0.623	0.633	0.645	0.657
240	min	0.435	0.470	0.495	0.513	0.520	0.528	0.537
300	min	0.420	0.442	0.457	0.468	0.472	0.477	0.482
600	min	0.220	0.233	0.243	0.250	0.252	0.255	o.258
1200	min	0.123	0.126	0.129	0.130	0.131	0.131	0.132

Discharge Constant Current (Amperes at 25˚C)

End Voltage / Time		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	3.49	4.11	4.57	4.94	5.09	5.26	5.51
10	min	2.12	2.43	2.63	2.81	2.88	2.96	3.11
15	min	1.71	1.95	2.09	2.20	2.24	2.29	2.35
30	min	0.931	1.06	1.17	1.24	1.26	1.29	1.32
60	min	0.680	0.716	0.735	0.759	0.765	0.772	0.779
120	min	0.392	0.415	0.429	0.440	0.444	0.449	0.456
180	min	0.272	0.291	0.302	0.311	0.314	0.318	0.324
240	min	0.223	0.238	0.247	0.254	0.257	0.260	0.264
300	min	0.207	0.219	0.226	0.231	0.233	0.236	0.238
600	min	0.112	0.117	0.121	0.124	0.125	0.126	0.127
1200	min	0.0615	0.0624	0.0631	0.0637	0.0639	0.0642	0.0646

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