

Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		7.2 Ah
Dimension s mm (inch)	Length	151mm (5.94 inches)
	Width	65mm (2.56 inches)
	Height	96mm (3.78 inches)
	Total Height	101mm (3.97 inches)
Approx. mass		2.47kgs

Characteristics

Capacity 27°C (81°F)		20 hour rate to 10.5 ECV	7.2 Ah
		10 hour rate to 10.5 ECV	6.7 Ah
		5 hour rate to 10.5 ECV	6.15 Ah
		1 hour rate to 10.5 ECV	4.5 Ah
Internal resistance		Fully charge battery at 27°C	<25 milli ohms
Capacity affected by temperature (20 hrs rate)		104°F (40°C)	110%
		81°F (27°C)	100%
		32°F (0°C)	80%
		5°F (-15°C)	60%
self discharge at 27°C		Capacity after 3 month storage	88%
		Capacity after 6 month storage	78%
Maximum discharge current for 5 sec at 27 °C			108 Amps
Charge method (Constant voltage)	Cyclic use (Repeating use)	Initial current	1.8 Amps
		Control voltage	14.2V to 14.4V
	Trickle use	Initial current	0.72 Amps
		Control voltage	13.5 V to 13.8V

Constant current discharge ratings-amps at 27 °C

Duration	5min	10min	15min	20min	30min	60min	2hrs	3hrs	5hrs	8hrs	10hrs	20hrs
ECV												
1.3	28.8	18.0	13.8	11.1	8.0							
1.55	25.7	16.7	13.3	10.6	7.9	4.9						
1.6	23.9	16.3	13.0	10.3	7.8	4.7	2.8	1.9	1.3	0.8	0.7	0.4
1.7	21.6	15.3	11.9	9.6	7.2	4.6	2.6	1.8	1.2	0.8	0.7	0.4
1.75	21.2	14.7	11.6	9.5	7.1	4.5	2.6	1.8	1.2	0.8	0.7	0.4

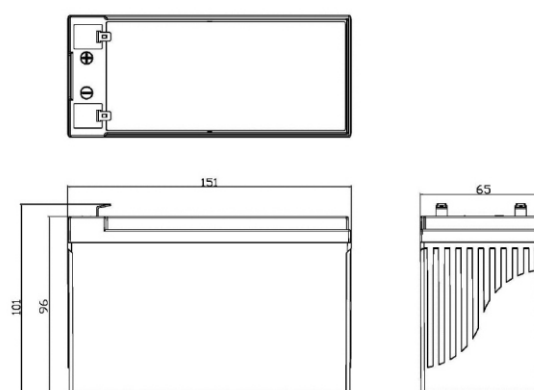
Constant power discharge ratings-watts at 27 °C

ECV	5 min	10 min	15 min	20 min	30 min	60 min	2 hrs	3 hrs	5 hrs	8 hrs
1.60	295.6	199.5	156.8	126.6	92.7	58.0	35.7	23.4	16.0	9.9
1.70	279.7	195.8	176.7	121.8	88.6	55.9	32.7	22.1	15.0	9.7
1.80	251.9	175.6	135.6	113.0	84.9	53.8	29.9	21.2	14.2	9.4

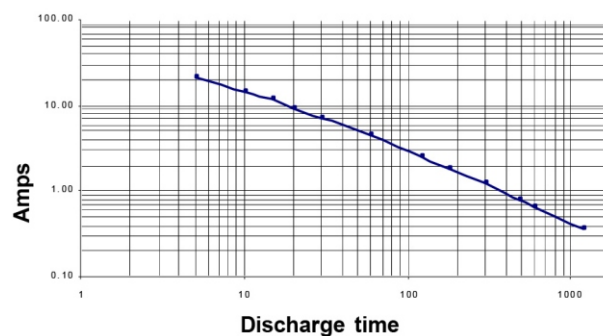
12AL007
12 V 7.2 Ah



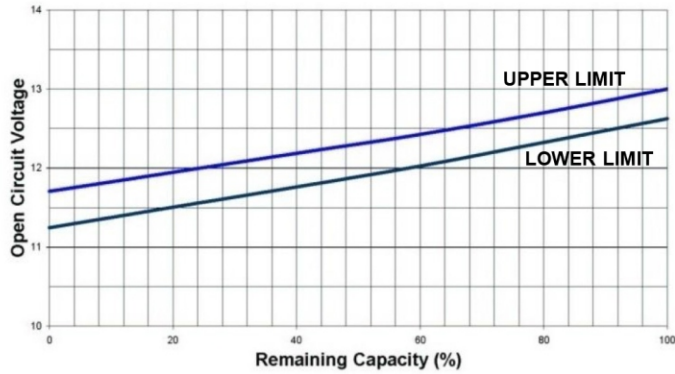
Dimensions



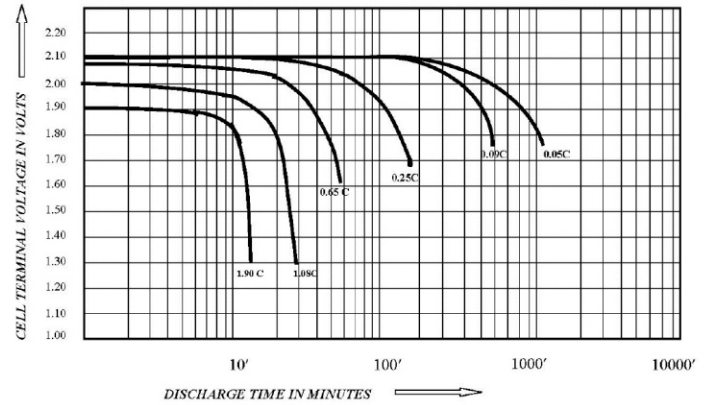
Discharge current Vs Time at 27°C



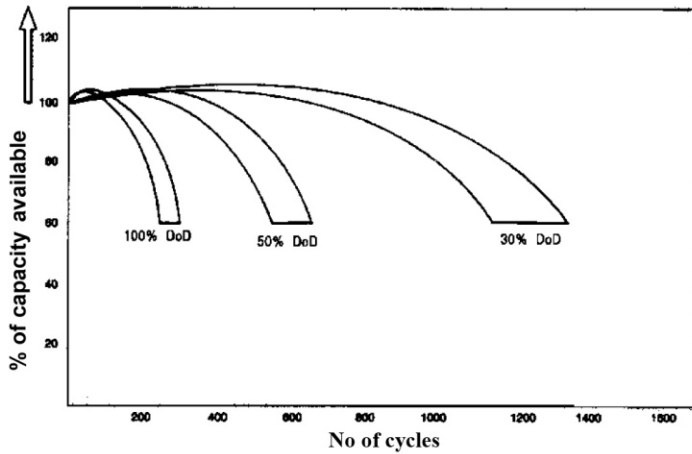
Open circuit voltage vs % State of charge



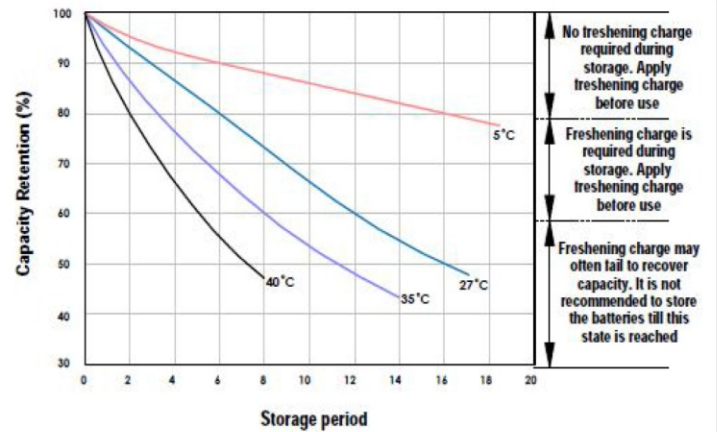
Discharge characteristics at 27°C



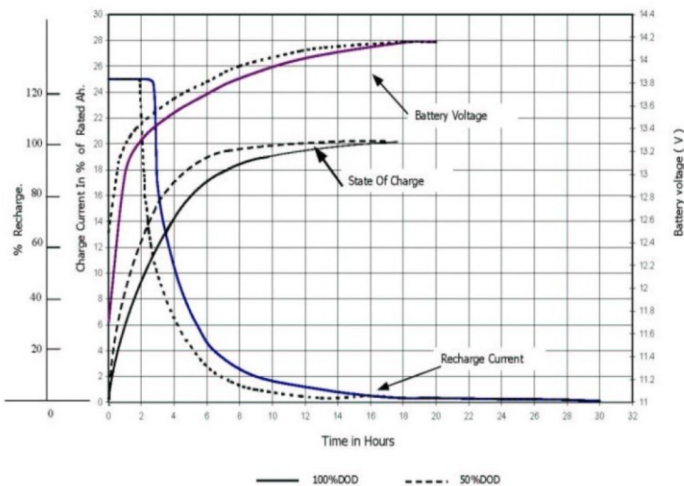
Cycle life in relation to depth of discharge



Shelf life characteristics at various ambient temperatures



Constant Voltage charging characteristics



TEMPERATURE EFFECT IN RELATION TO BATTERY CAPACITY

