

Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		18 Ah
Dimension s mm (inch)	Length	181 mm (7.12 inches)
	Width	77.5 mm (3.05 inches)
	Height	167.5 mm (6.59 inches)
	Total Height	167.5 mm (6.59 inches)
Approx. mass		5.73 kgs

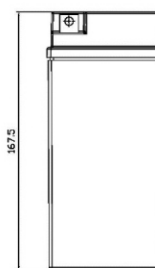
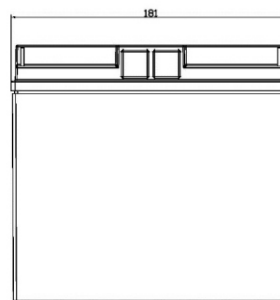
12AL018
12V 18Ah

Characteristics

Capacity 27°C (77°F)	20 hour rate to 10.5 ECV	18 Ah
	10 hour rate to 10.5 ECV	16.8 Ah
	5 hour rate to 10.5 ECV	15.4 Ah
	1 hour rate to 10.5 ECV	11.25 Ah
Internal resistance		Fully charge battery at 27°C
		<14 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		270
Charge method (Constant voltage)	Cyclic use (Repeating use)	Initial current
		4.5 Amps
	Trickle use	Control voltage
		14.2V to 14.4V
	Initial current	1.8 Amps
		Control voltage
		13.5 V to 13.8V



Dimensions



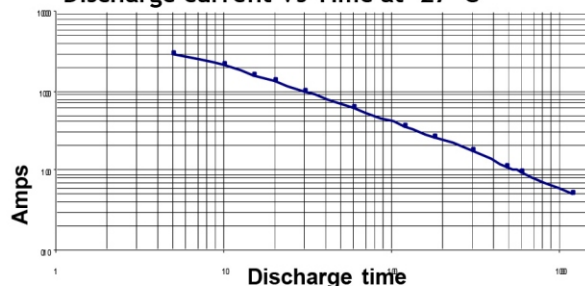
Constant current discharge ratings-amps at 27 °C

Duration ECV	5min	10min	15min	20min	30min	60min	2hrs	3hrs	5hrs	8hrs	10hrs	20hrs
1.3	72.00	45.00	34.62	27.69	20.00							
1.55	64.29	41.86	33.33	26.47	19.78	12.16						
1.6	59.80	40.65	32.49	25.79	19.57	11.69	7.09	4.845	3.335	2.069	1.750	0.964
1.7	54.05	38.18	29.70	23.90	18.00	11.39	6.51	4.552	3.087	1.979	1.708	0.915
1.75	52.94	36.73	29.03	23.68	17.82	11.25	6.43	4.545	3.077	1.967	1.676	0.900
1.8	50.99	36.00	28.57	23.08	17.65	10.77	6.38	4.523	3.051	1.957	1.667	0.895

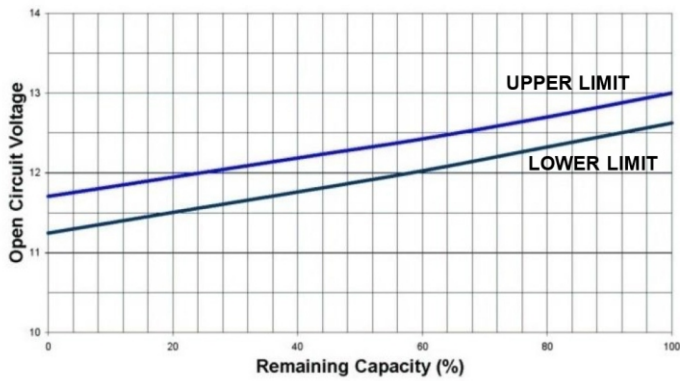
Constant power discharge ratings-watts at 27 °C

ECV	5 min	10 min	15 min	20 min	30 min	60 min	2 hrs	3 hrs	5 hrs	8 hrs
1.60	738.88	498.75	392.06	316.45	231.80	145.07	89.19	58.62	40.08	24.86
1.70	699.21	489.49	441.74	304.60	221.54	139.81	81.69	55.35	37.38	24.22
1.80	629.87	438.96	339.11	282.50	212.31	134.57	74.80	52.98	35.45	23.56

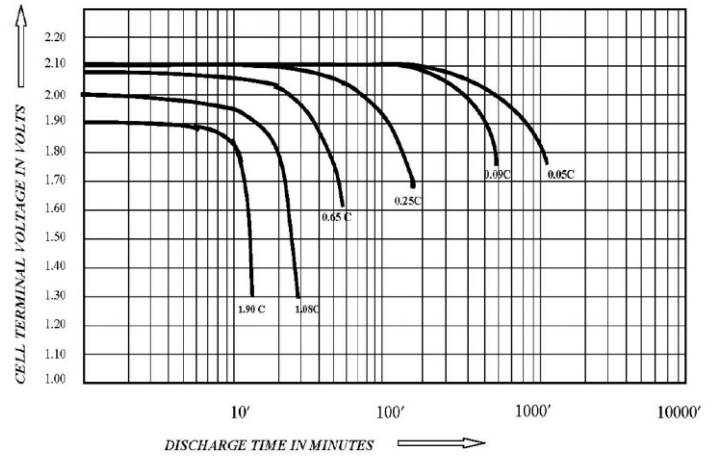
Discharge current Vs Time at 27 °C



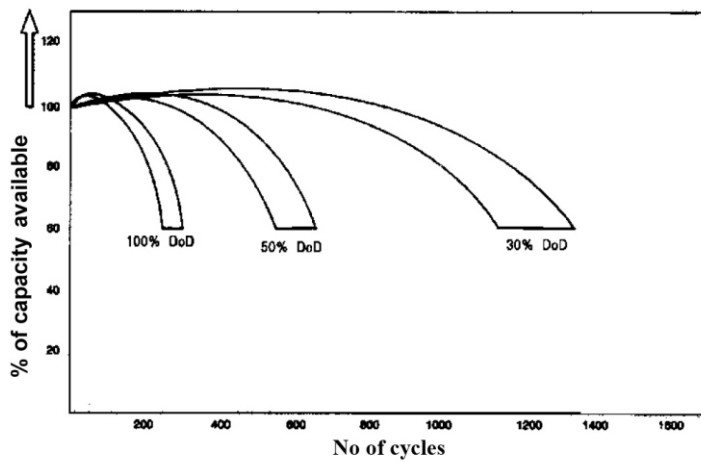
Open circuit voltage vs % State of charge



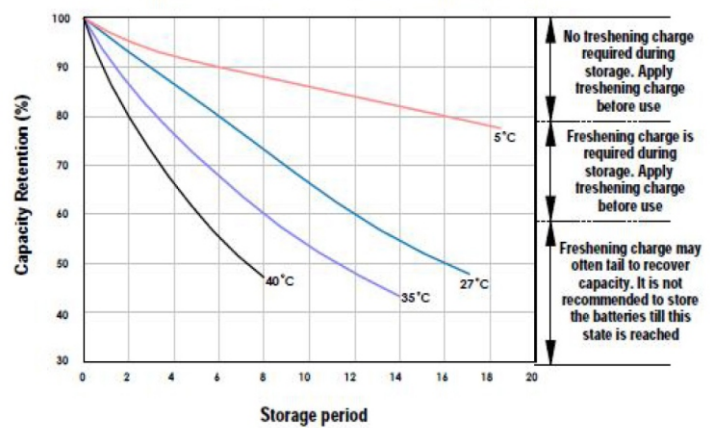
Discharge characteristics at 27°C



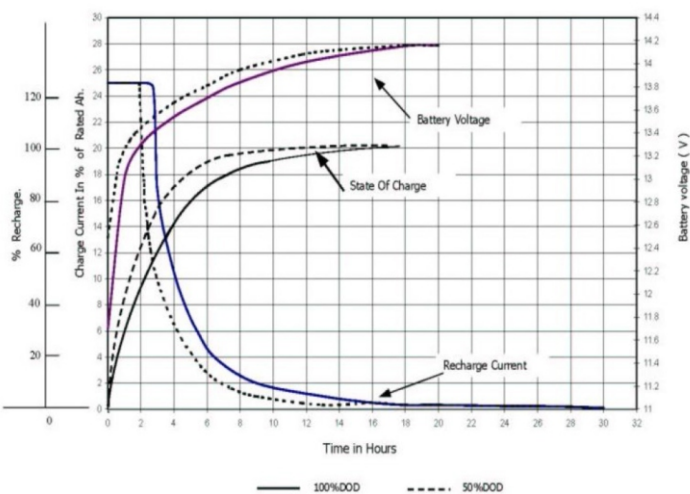
Cycle life in relation to depth of discharge



Shelf life characteristics at various Ambient Temperatures



Constant Voltage charging characteristics



TEMPERATURE EFFECT IN RELATION TO BATTERY CAPACITY

