

Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		18 Ah
Dimensions 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		6.5 kgs

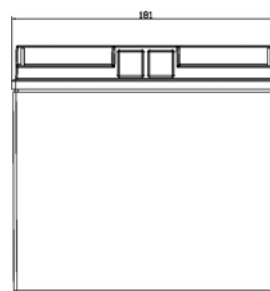
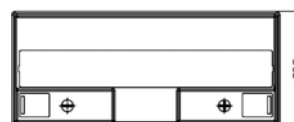
12AL018
12V 18Ah

Characteristics

Capacity 27°C (77°F)	20 hourrate to 10.5 ECV	18 Ah	
	10 hourrate to 10.5 ECV	16.8 Ah	
	5 hourrate to 10.5 ECV	15.4 Ah	
	1 hourrate to 10.5 ECV	11.25 Ah	
Internalresistance	Fullychargebatteryat27°C	<14 mΩ	
Capacityaffected 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%	
selfdischarge at27°C	Capacityafter3 month storage	88%	
	Capacityafter6 month storage	78%	
Maximum discharge current for 5 sec at27 °C		270	
Charge method (Constantvoltage)	Cyclicuse (Repeating use)	Initialcurrent	4.5 Amps
		Controlvoltage	14.2V to 14.4V
	Trickle use	Initialcurrent	1.8 Amps
		Controlvoltage	13.5V to 13.8V



Dimensions



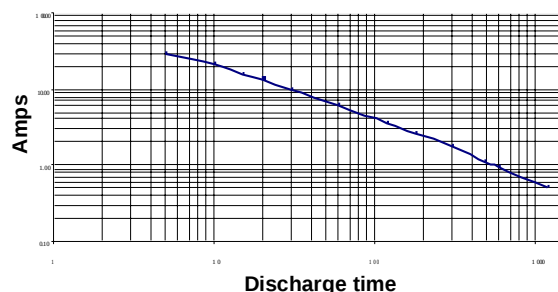
Constant current discharge ratings-amps at 27°C

Duration	5m in	10m in	15min	20m in	30min	60min	2hrs	3hrs	5hrs	8hrs	10hrs	20hrs
ECV												
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

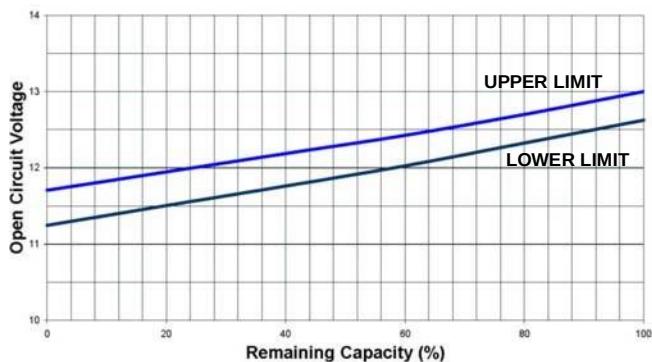
Constant power discharge ratings-watts at 27°C

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

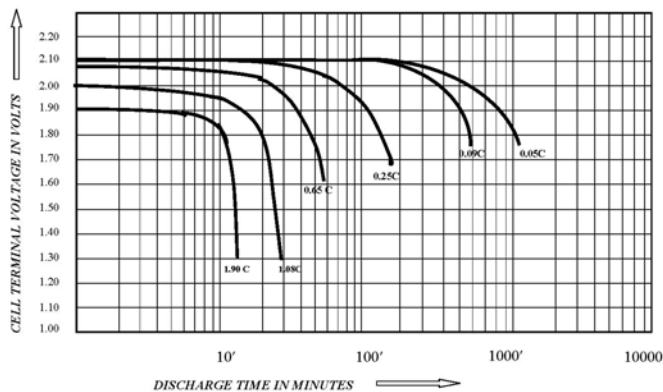
Discharge current Vs Time at 27°C



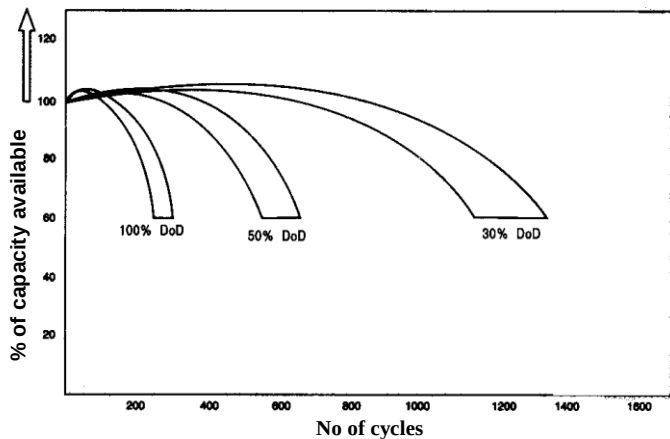
Open circuit voltage vs % State of charge



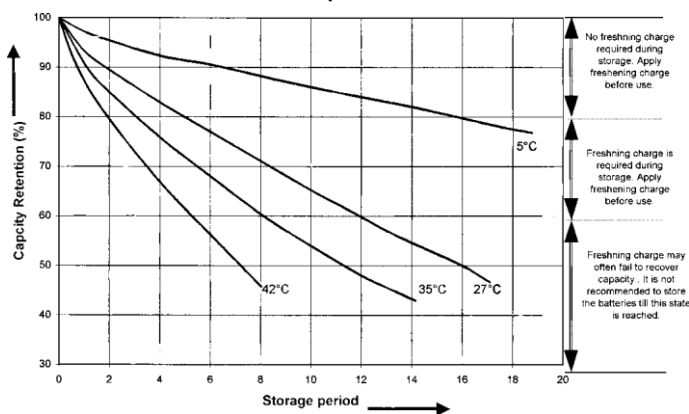
Discharge characteristics at 27°C



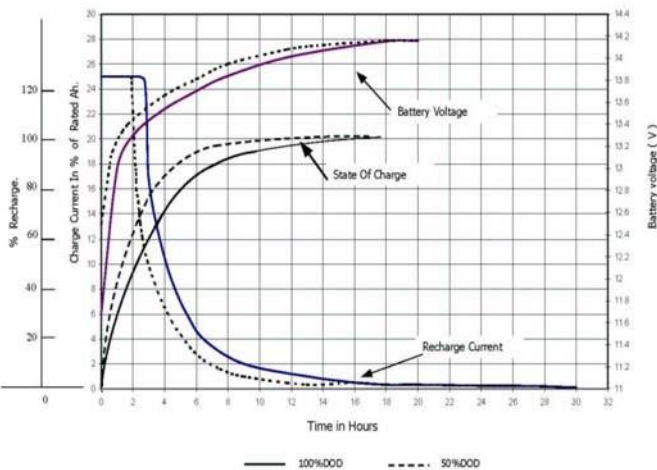
Cycle life in relation to depth of discharge



Shelf life characteristics at various ambient temperatures



Constant Voltage charging characteristics



Temperature effect in relation to battery capacity

