

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

Characteristics

C 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 mΩ	
C 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	
C charge method (Constant voltage)	Cyclic use (Repeating use)	Initial current	4.5 Amps
		Control voltage	14.2V to 14.4V
	Trickle use	Initial current	1.8 Amps
		Control voltage	13.5V to 13.8V

Constant current discharge ratings-amps at 27°C

Duration	5m in	10m in	15m in	20m in	30m in	60m in	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

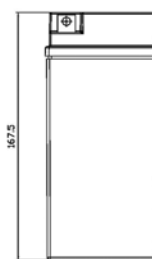
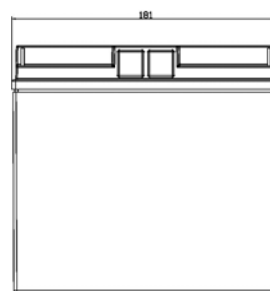
Constant power discharge ratings-watts at 27°C

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

12AL018
12V 18Ah



Dimensions



Discharge current Vs Time at 27°C

