

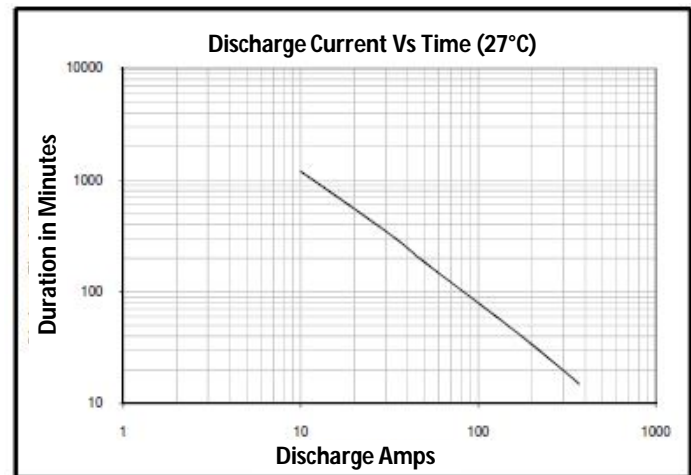
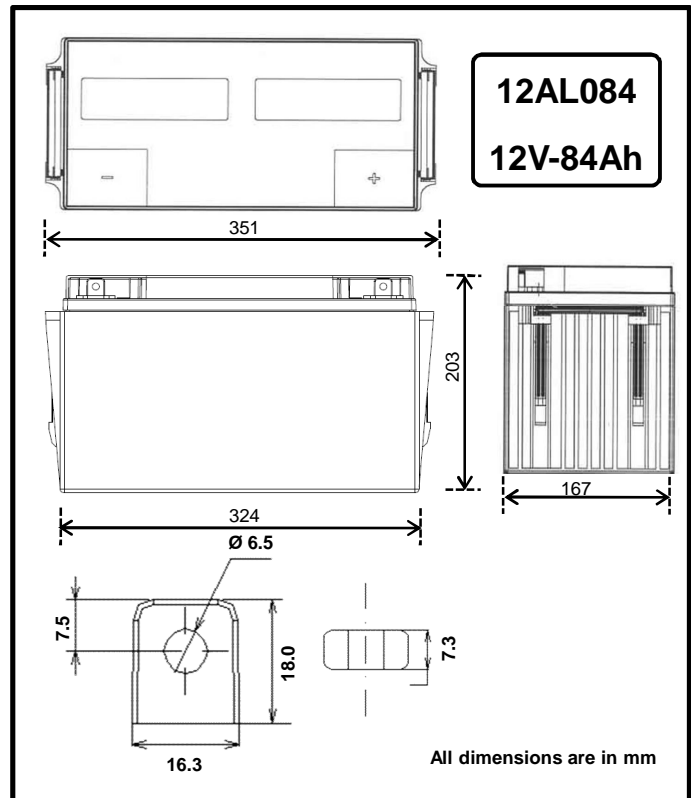


### Specification

Nominal voltage	12 Volts	
Rated capacity (C <sub>20</sub> Hour rate at 27°C)	84 Ampere Hour	
Dimensions	Length	351 mm
	Width	167 mm
	Height	203 mm
Weight ± 1.0 Kgs (approx.)	27.0 Kgs	

### Characteristics\*

Capacity@ 80.6°F (27°C)	20 hour rate (4.20A) upto 10.5V	84.0 Ah
	10 hour rate (7.82A) upto 10.5V	78.20 Ah
	5 hour rate (14.41A) upto 10.2V	72.05 Ah
	1 hour rate (54.55A) upto 9.6V	54.55 Ah
	15 minute rate (151.62A) upto 9.6V	37.90 Ah
Internal resistance	Fully charged battery 80.6°F (27°C)	3.54mΩ
Capacity affected (Temperature at C <sub>20</sub> hour rate)	104°F (40°C)	110%
	80.6°F (27°C)	100%
	32°F (0°C)	80%
	5°F (-15°C)	60%
Self discharge 80.6°F (27°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
Terminal Type	M6×20 mm bolted	
Short circuit current	2420 A	

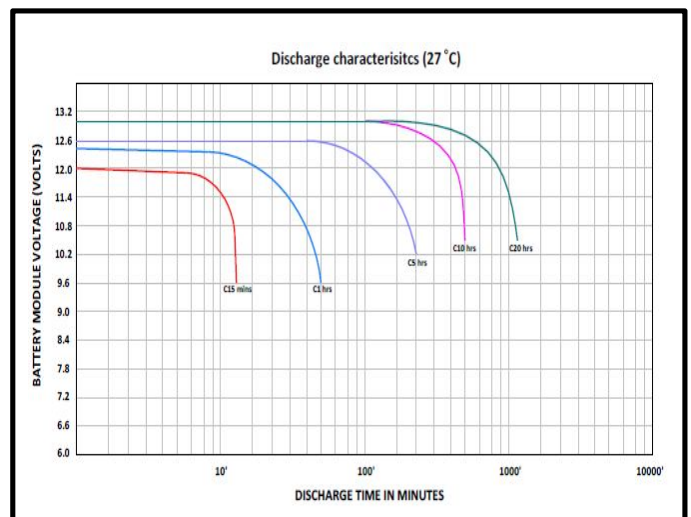


### Constant power discharge rating watts per battery @ 27°C\*

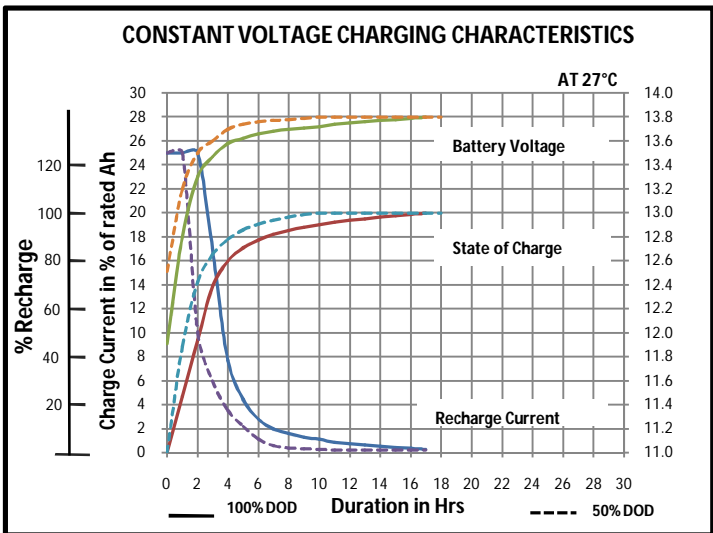
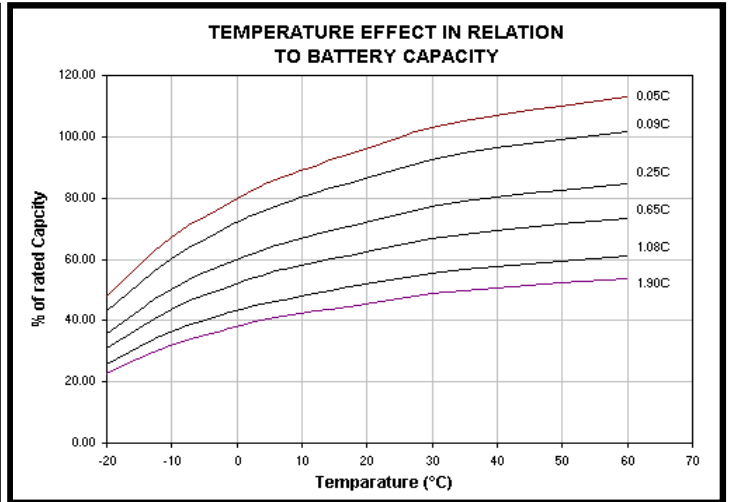
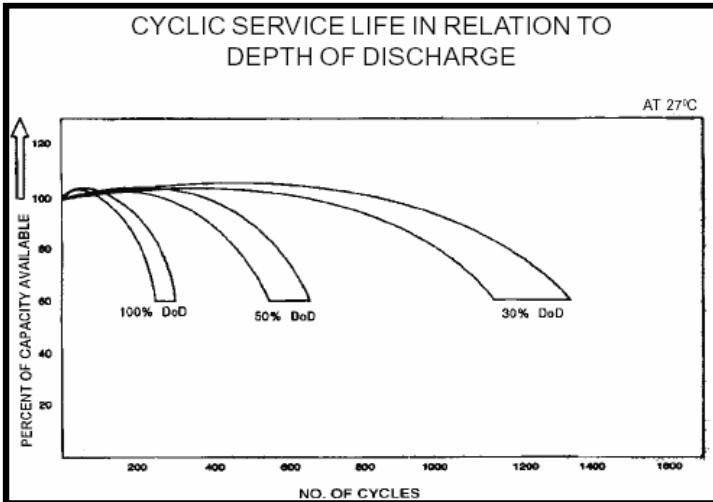
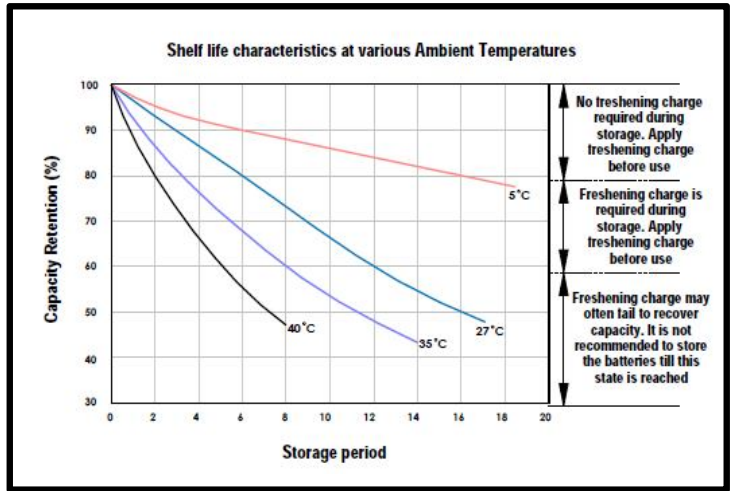
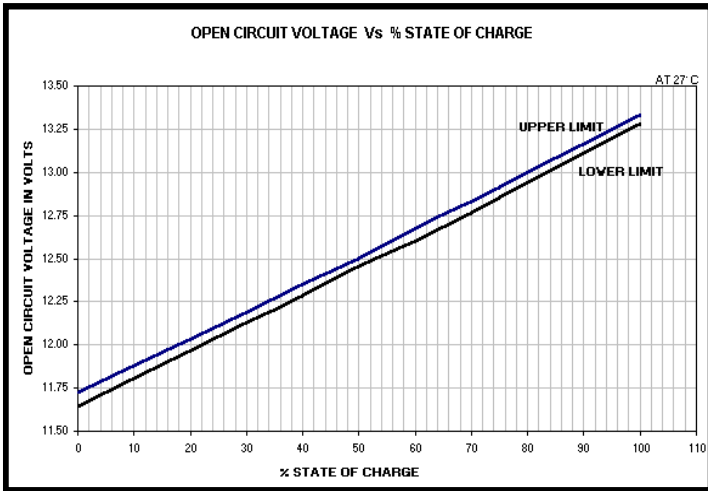
ECV	DURATION											
	10 min	15 min	20 min	30 min	60 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr	
1.60	2103	1761	1322	1032	590	381	297.0	193.0	126.0	105.0	52.0	
1.65	2085	1721	1309	1000	580	376	285.0	190.0	124.0	104.5	51.5	
1.70	2067	1681	1295	967	570	370	273.0	187.0	122.0	104.0	51.0	
1.75	2032	1650	1271	951	558	363	271.5	184.0	120.5	103.0	50.5	
1.80	1917	1619	1246	934	545	356	270.0	181.0	119.0	102.0	50.0	

### Constant current discharge rating amperes @ 27 °C\*

ECV	DURATION											
	10 min	15 min	20 min	30 min	60 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr	
1.60	189.70	151.62	120.34	91.30	54.55	33.08	22.61	15.56	9.66	8.17	4.50	
1.65	183.93	145.12	115.95	87.65	53.86	31.74	21.93	14.99	9.45	8.07	4.39	
1.70	178.15	138.61	111.55	84.00	53.16	30.40	21.24	14.41	9.23	7.97	4.27	
1.75	171.43	135.48	110.53	83.17	52.50	30.00	21.21	14.36	9.18	7.82	4.20	
1.80	168.00	133.33	107.69	82.35	50.24	29.79	21.11	14.24	9.13	7.78	4.18	



\* The above data are average values and can be obtained within three charge/discharge cycles



### CHARGING METHODS:

Constant voltage charging at 27° C

Stand by use	: Charging voltage 13.5V/battery
Max. Charging current	: 25 % of rated Ah capacity
Cyclic use	: Charging voltage 13.8V/Battery
Max. Charging current	: 25 % of rated Ah capacity
Temperature compensation	: 18 mV/battery/°C

### CAUTION:

- ⚡ Avoid short circuit
- 🚫 Don't charge in a sealed container

### AMARARAJA BATTERIES LTD.

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Quality systems certified to

EN ISO 14001:2004  
 ISO/TS 16949: 2009