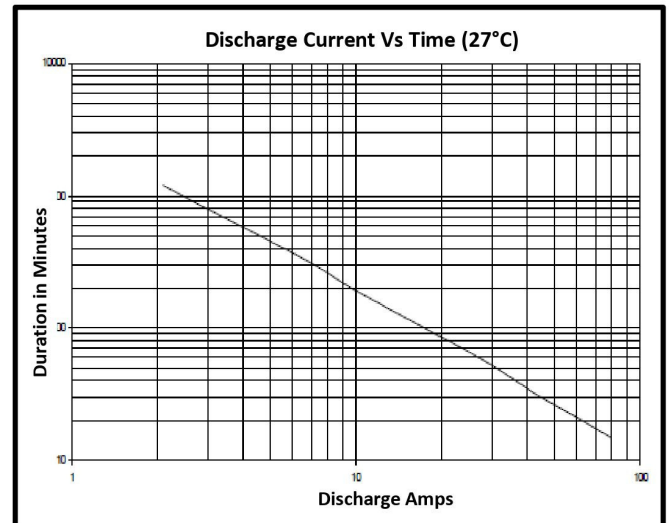


**Specification**

Nominal voltage	12 Volts	
Rated capacity (C <sub>20</sub> Hour rate at 27°C)	42 Ampere Hour	
Dimensions (±2 mm)	Length	199 mm
	Width	167 mm
	Height	175 mm
Weight ± 1.0 Kgs (approx.)	14.0 Kgs	

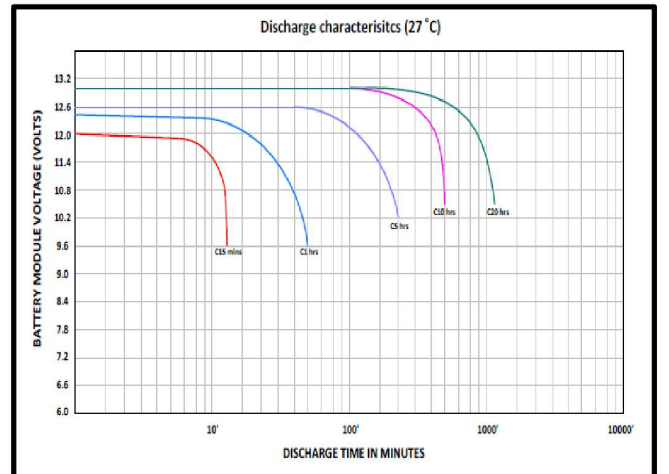
**Characteristics \***

Capacity@ 80.6°F (27°C)	20 hour rate (2.10A) upto 10.5V	42.0 Ah
	10 hour rate (3.91A) upto 10.5V	39.10 Ah
	5 hour rate (7.20A) upto 10.2V	36.0 Ah
	1 hour rate (27.27A) upto 9.6V	27.27 Ah
	15 minute rate (75.81A) upto 9.6V	18.95 Ah
Internal resistance	Fully charged battery 80.6°F (27°C)	7.60 mΩ
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 x 20 mm Bolted	
Short circuit current	1645 A	



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

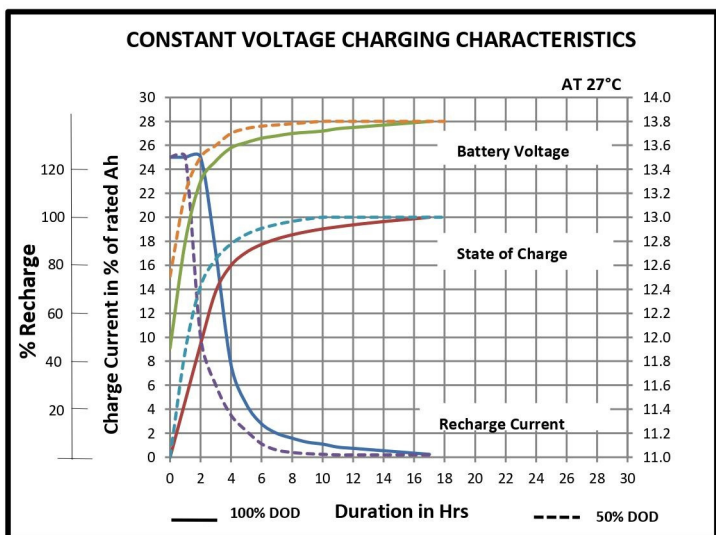
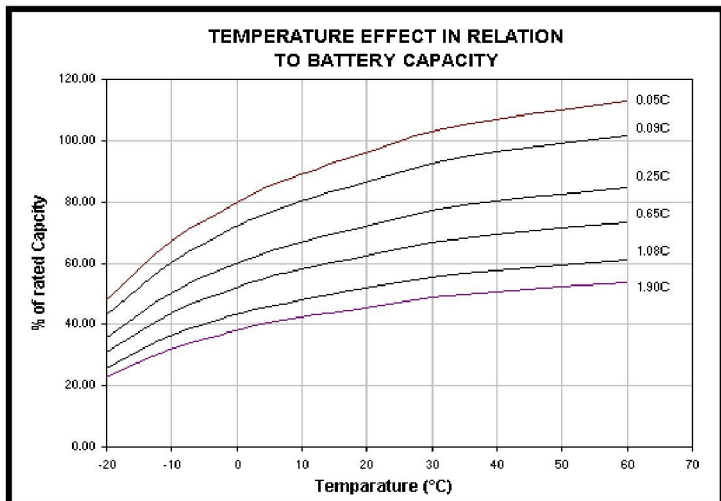
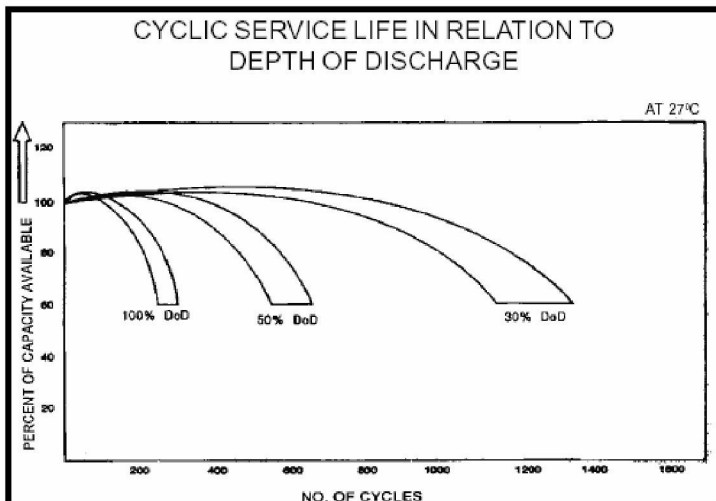
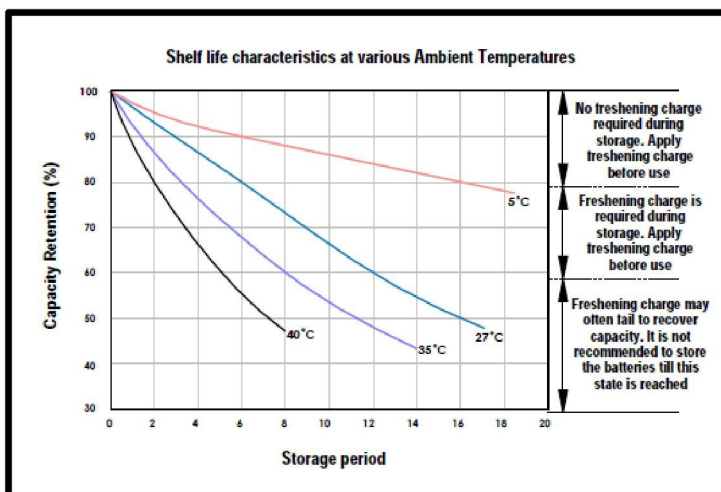
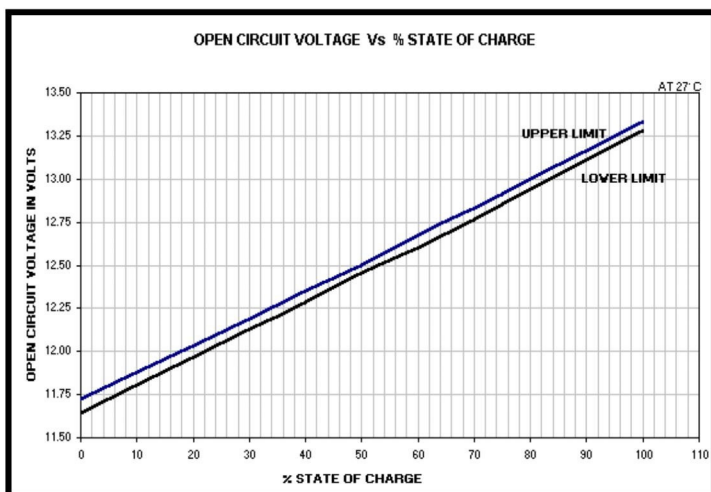
ECV	DURATION										
	10 min	15 min	20 min	30 min	60 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.60	1136	882	715	565	330	192	134.0	91.0	60.0	52.0	25.0
1.65	1114	862	704	543	325	189	133.0	90.5	59.5	51.5	24.5
1.70	1092	842	693	520	320	185	132.0	90.0	59.0	51.0	24.0
1.75	1051	821	683	513	313	183	131.0	89.5	58.5	50.5	23.5
1.80	1010	800	672	505	305	180	130.0	89.0	58.0	50.0	23.0



**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	94.85	75.81	60.17	45.65	27.27	16.54	11.31	7.78	4.83	4.08	2.25
1.65	91.97	72.56	57.98	43.83	26.93	15.87	10.97	7.49	4.73	4.03	2.20
1.70	89.08	69.31	55.78	42.00	26.58	15.20	10.62	7.20	4.62	3.98	2.14
1.75	85.71	67.74	55.26	41.58	26.25	15.00	10.61	7.18	4.59	3.91	2.10
1.80	84.00	66.67	53.85	41.18	25.12	14.89	10.55	7.12	4.57	3.89	2.09

\*Note: 1. The above data are average values per battery and can be obtained within five charge/discharge cycles.  
 2. A tolerance of ±5% is applicable for the above constant power discharge and constant current discharge values.  
 3. Recommended to follow IEEE - 485 Standard for Battery sizing (In terms of Aging Margin, Design Margin) for Optimal Performance & Life.  
 4. Considerable Voltage drop across cables, if any shall be considering during battery sizing.



**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

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**Quality Edge:**

- ISO 9001: 2015
- ISO 14001: 2015
- OHSAS 18001:2007

**International Compliance:**

- Compliance to JISC8702 Standard
- Complies to UL
- Complies to CE Marking