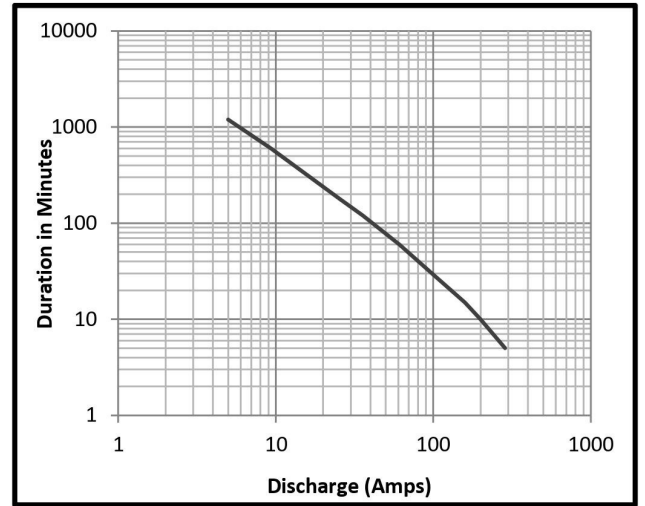


**Specification**

Nominal voltage	12 Volts	
Rated capacity (C <sub>20</sub> Hour rate at 27°C)	100 Ampere Hour	
Dimensions	Length	393mm
	Width	173mm
	Height	221mm
Weight ± 1.0 Kgs (approx.)	32.5 Kgs	

**Characteristics \***

Capacity@ 80.6°F (27°C)	20 hour rate (5.0A) upto 10.5V	100.0 Ah
	10 hour rate (9.31A) upto 10.5V	93.10 Ah
	5 hour rate (17.15A) upto 10.2V	85.75 Ah
	1 hour rate (63.70A) upto 9.6V	63.70 Ah
	15 minute rate (172.40A) upto 9.6V	43.10 Ah
Internal resistance	Fully charged battery 80.6°F (27°C)	5.60 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	M8×25 mm Copper terminal	
Short circuit current	2220 A	

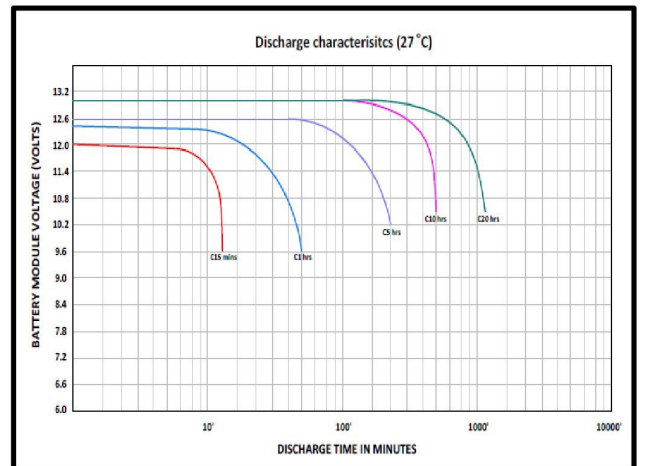


**Constant power discharge rating watts per battery @ 27 °C\***

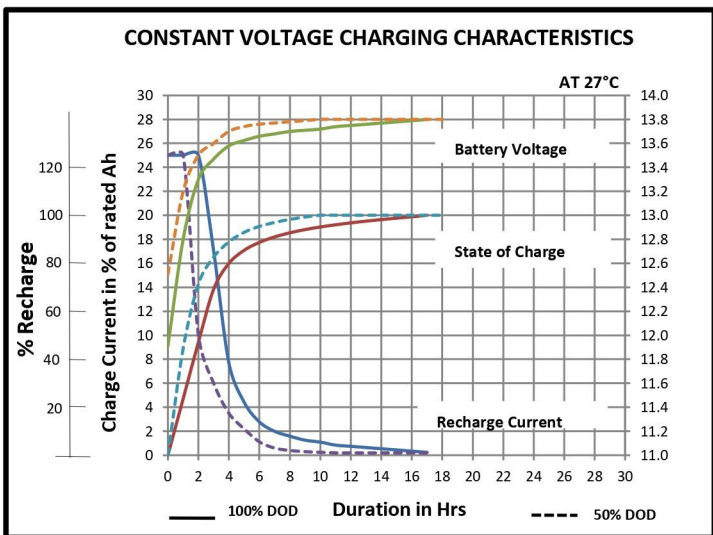
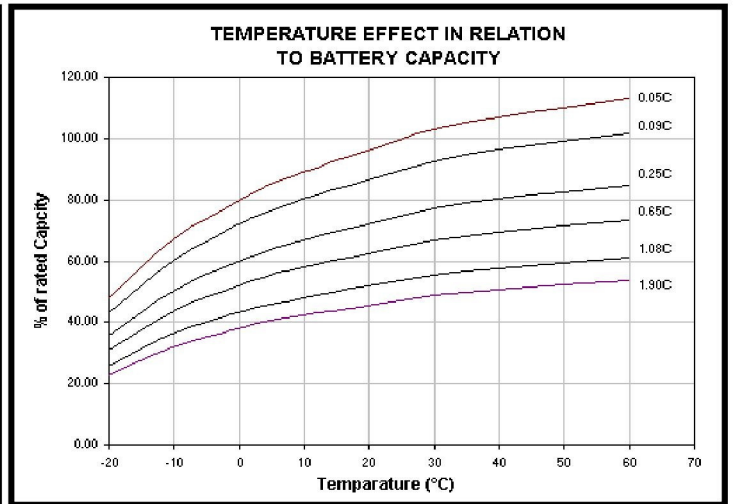
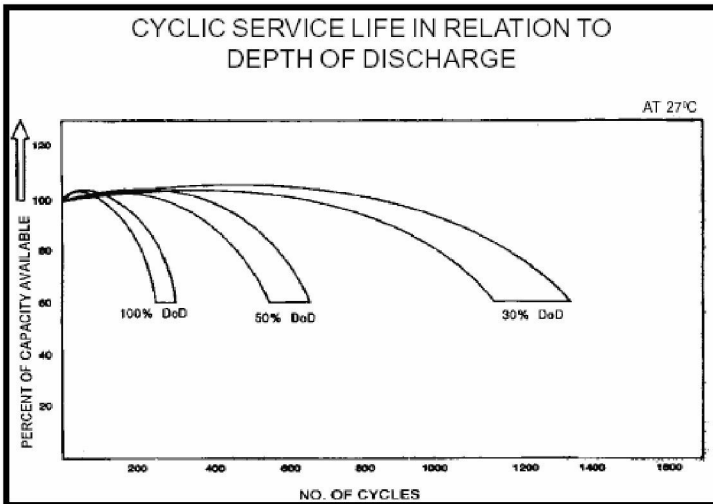
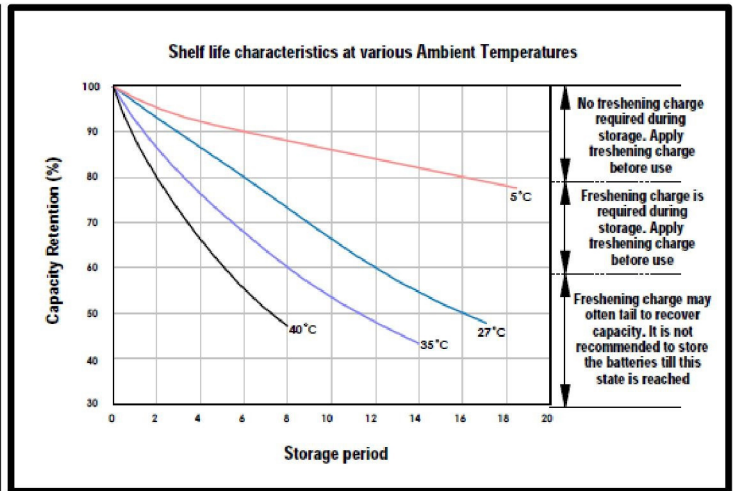
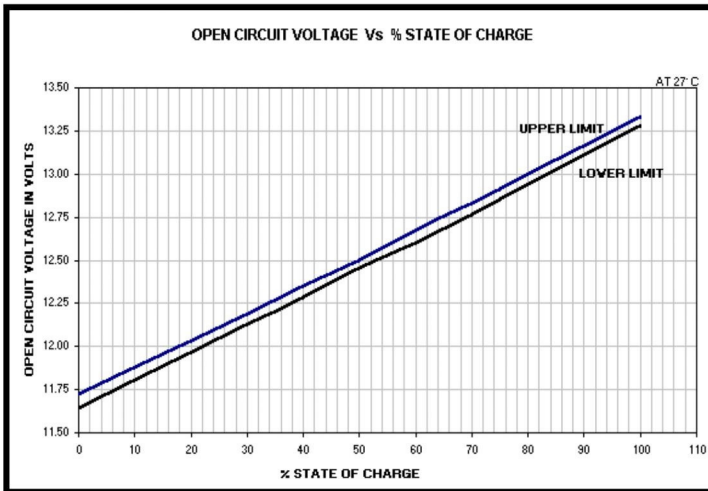
ECV	DURATION										
	10 min	15 min	20 min	30 min	60 min	2 hrs	3 hrs	5 hrs	8 hrs	10 hrs	20 hrs
1.60	2416	2010	1500	1209	750	453	331.0	222.0	151.0	122.0	62.0
1.65	2362	1947	1438	1183	734	447	322.0	217.0	148.0	121.0	61.5
1.70	2308	1883	1376	1157	717	440	313.0	212.0	145.0	120.0	61.0
1.75	2254	1820	1364	1131	700	433	304.0	207.0	142.0	119.0	60.5
1.80	2200	1756	1352	1105	683	426	295.0	202.0	139.0	118.0	60.0

**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	217.39	172.41	140.80	102.04	63.69	39.39	26.92	18.53	11.49	9.72	5.36
1.65	210.74	166.85	136.10	100.52	63.09	37.79	26.10	17.84	11.24	9.605	5.22
1.70	204.10	161.30	131.50	99.00	62.50	36.19	25.29	17.15	10.99	9.49	5.09
1.75	200.00	158.70	129.80	98.00	61.00	35.71	25.25	17.09	10.93	9.31	5.00
1.80	196.10	153.80	126.50	96.20	59.50	35.46	25.13	16.95	10.87	9.26	4.97



\*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

## SAFFRON ENGINEERING

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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