



### General Features

- 1. Low Self Discharge
- 2. Excellent performance on deep Cyclic application as compare to AGM VRLA
- 3. Very High Design & service life
- 4. Low water loss

### C10



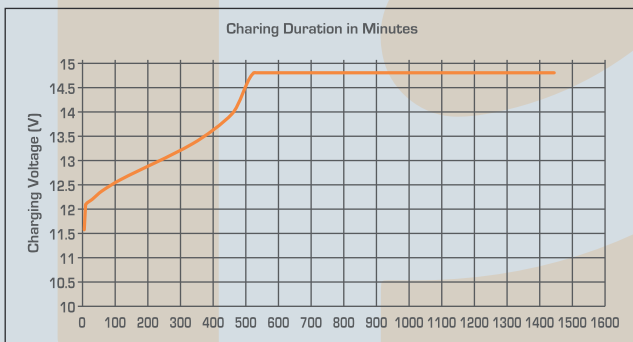
### Constant-Voltage Charge

Nominal Voltage	Rated Capacity 20 Hr @ 27 °C (Ah)	Dimensions in mm			Filled Battery Weight (Kg) [±3 %]
		Length [± 3 mm]	Width [± 3 mm]	Height [± 3 mm]	
12	150	502	190	402	53

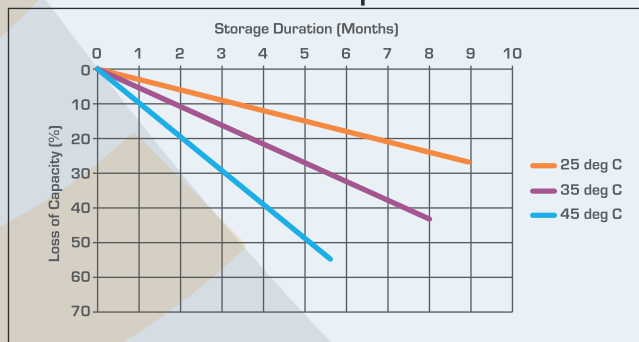
### Electrical Parameters & Charging Profile

Battery Specified Capacity Test @ 27°C							
C20 @10.5 V	C10 @10.5 V	C7 @10.5 V	C5 @10.5 V	C3 @10.5 V	C1 @10.5 V		
150	135	124	112	97	68		
Ah & Wh Efficiency							
Ah Efficiency		>90%		Wh Efficiency		>75%	

Charging Profile



Self Discharge Characteristics @ Different Temperature



The Crown of Power Solution

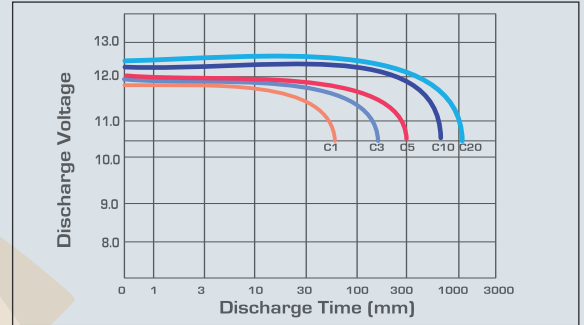


# Technical Specification

State of Charge Measure of Open-circuit Voltage @ 27°C

State of Charge	Specific Gravity	Voltage
100%	1.260	12.7V
75%	1.225	12.4V
50%	1.190	12.1V
25%	1.155	12.0V
0%	1.120	11.8V

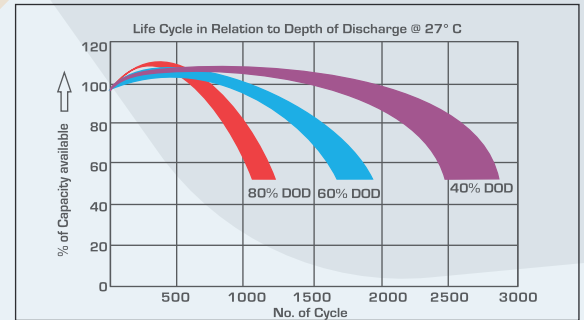
Discharging Characteristics at various rates @ 27°C



Specific Gravity & Self Discharge w.r.t. Temperature

	Add	Subtract
CHARGING TEMPERATURE COMPENSATION	0.005 volt per cell for every 1°C below 25°C 0.0028 volt per cell for every 1°F below 77°F	0.005 volt per cell for every 1°C above 25°C or 0.0028 volt per cell for every 1°F above 77°F
OPERATIONAL DATA	Operating Temperature	Self Discharge
	-4°F to 131°F (-20°C to +55°C) At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	As per discharge Graph

Expected Life



## Charging Instructions

Charger Voltage Settings (at 77°F/25°C)			
System Voltage	12V	24V	48V
Maximum Charge Current	0.2C <sub>10</sub>		
Maximum Absorption Phase Time (hours)	4		
Absorption Voltage	14.4	28.8	57.6
Float Voltage	13.6	27.2	54.4
Equalization Voltage	16	32	64
Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.			
PERIODIC CHARGE	Provide a periodic freshening charge to maintain a SOC greater than the threshold of 70%.		

## Discharge table

DISCHARGE AMPERE 100 AH											
Cut Off Voltage	5 Min	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	10 Hr	20 Hr
9.6	288	196	153	95	58	36	26	20	17	9	5.2
10.2	277	188	148	93	56	35	25	19	16	8.9	5.1
10.5	257	175	138	91	55	34	25	19	16	8.8	5
10.8	224	153	126	86	53	32	24	19	15	8.7	4.9
DISCHARGE WATTAGE 100 AH											
Cut Off Voltage	5 Min	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	10 Hr	20 Hr
9.6	2534	2145	1824	1110	657	387	266	204	166	88	45
10.2	2332	2065	1769	1085	622	371	257	196	156	84	44
10.5	2090	1913	1645	1061	605	364	252	194	156	83	44
10.8	1847	1674	1505	1004	597	355	247	189	151	82	43