VANTOM AGM VRLA BATTERY Model LDR 12-100, 12V 100Ah

Technical Data Sheet			
Nominal Voltage	12V		
Nominal Capacity	100 Ah		
Dimensions	Length	342± 3mm (13.03 inches)	
	Width	185 ± 3mm (6.81 inches)	
	Container Height	274 ± 3mm (8.78 inches)	
	Total Height	274 ± 3mm (8.86 inches)	
Approximate Weight	30 Kgs ± 3%		
Terminal Type	T6 Brass insert coated with tin		
Separator	Absorbed Glass Mat (AGM)		
Container Material	ABS		
Rated Capacity	100.0 Ah / 5.00 A	(20hr, 10.5 V, 25°C / 77°F)	
	93.0 Ah / 9.3 A	(10hr, 10.5 V, 25°C / 77°F)	
	85.0 Ah / 17 A	(5hr, 10.5 V, 25°C / 77°F)	
	75.00 Ah / 25 A	(3hr, 10.5 V, 25°C / 77°F)	
	60.00 Ah / 60 A	(1hr, 10.2 V, 25°C / 77°F)	
Max Discharge Current	1200 A (5secs)		
Internal Resistance	Approx 5.3 mΩ		
Operating Temperature Range	Discharge :	-15 ~ 50°C (5 ~ 122°F)	
	Charge :	0 ~ 40°C (32 ~ 104°F)	
	Storage :	-15 ~ 40°C (5 ~ 104°F)	
Nominal Operating Temp.	25 ± 3°C (77 ± 5°F)		
Cycle Use	Initial Charging Current less than 30.0 A.		
	Voltage 14.4 ~ 15.0V at 25°C (77°F)Temperature. Coefficient -30mV/°C		
Standby Use	No Limit on initial charging current voltage		
	13.5V ~ 13.8V at 25°C (77°F). Coefficient -20mV/°C		
Capacity affected by Temperature	40°C	(104°F)	103%
	25°C	(77°F)	100%
	0°C	(32°F)	86%
Self Discharge	Vista Power LDR series batteries may be stored for upto 6 months at 25°C (77°F) and then a freshening charge is to be given.		

Applications :

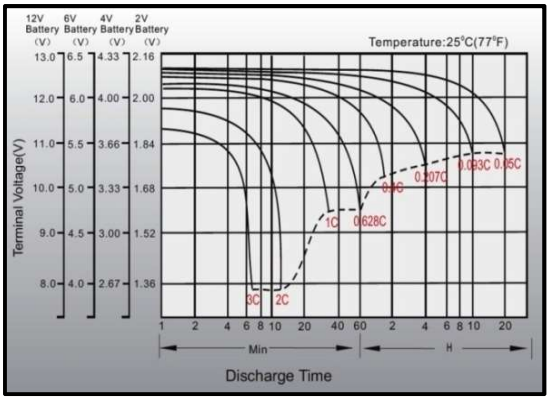
- Uninterrupted Power Supply (UPS)
- DC Power Supply
- Emergency Lighting
- Network Communication Equipment
- Telecommunications Power Supply
- Railways Signalling Systems
- Power Station System
- Medical Equipment
- Electronic Weighing Machines

Constant Current Discharge (Amperes) at 25°C (77°F)													
EV/Time	5min	10min	15min	20min	30min	45min	1hr	2hrs	3hrs	4hrs	5hrs	10hrs	20hrs
10.8 V	210.0	167.6	137.0	117.0	90.6	65.6	55.1	33.10	24.34	19.01	16.53	9.03	4.86
10.5 V	237.0	186.3	147.0	122.0	95.0	70.0	57.1	34.40	25.00	19.57	17.00	9.30	5.00
10.2 V	261.6	199.5	158.0	131.0	97.0	72.0	60.0	35.30	25.33	19.79	17.36	9.43	5.07
9.6 V	319.0	212.0	166.0	134.0	100.0	74.0	61.3	37.50	25.82	20.17	17.70	9.62	5.14

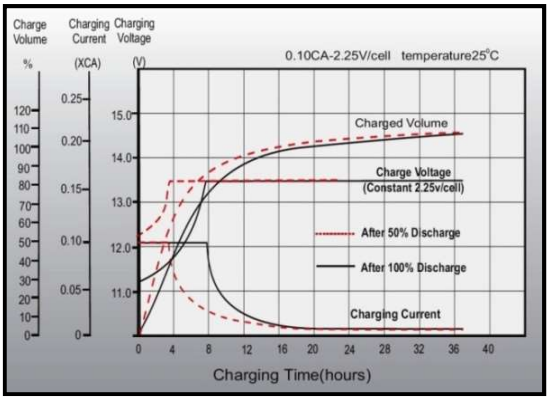
Constant Power Discharge (Watts) at 25°C (77°F)													
EV/Time	5min	10min	15min	20min	30min	45min	1hr	2hrs	3hrs	4hrs	5hrs	10hrs	20hrs
10.8 V	2250	1810	1560	1350	1000	740	643	383	283	224	196	108	58
10.5 V	2515	1995	1665	1425	1045	765	665	396	292	230	202	111	60
10.2 V	2740	2120	1770	1500	1100	800	690	406	295	233	206	113	61
9.6 V	3350	2400	1960	1610	1160	810	702	430	301	237	210	115	62

Electrical Performance :

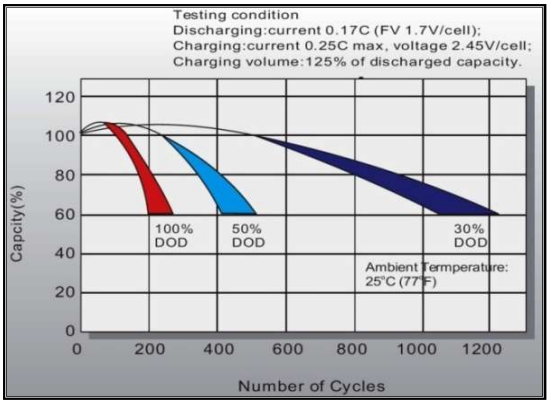
Discharge Characteristics



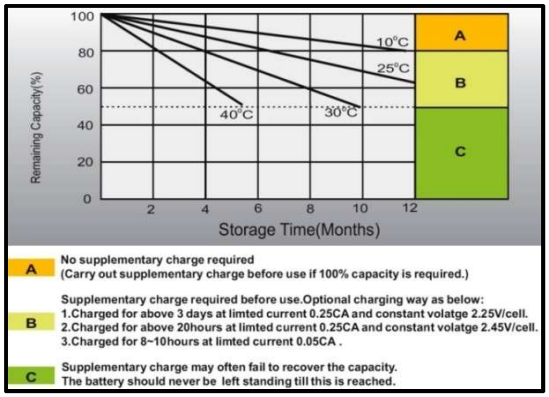
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Complied standard :

- JIS C8702 -1/2 :2009
- IS15549 - 2005

Terminal Type : T6