



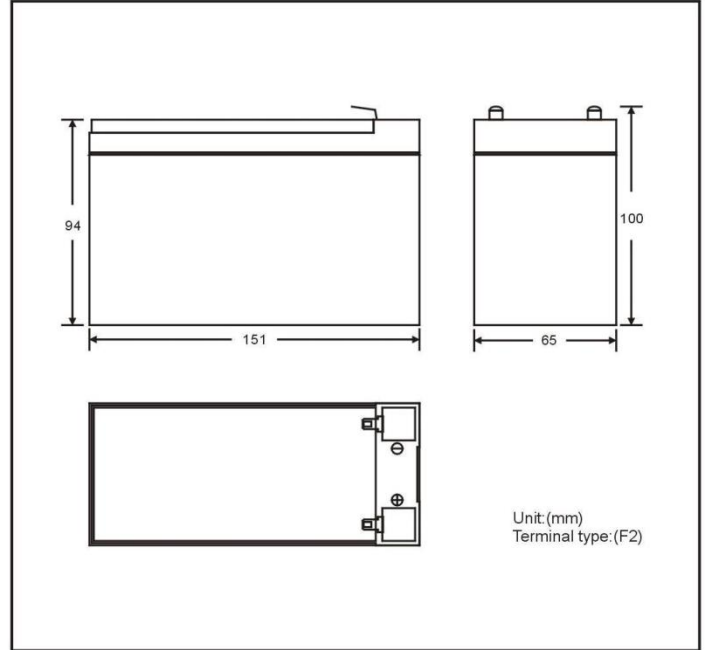
Specifications

PP 9-12		
Nominal Voltage		12V
Rated Capacity (20 hours rate)		9.0Ah
Dimension (±2mm)	Total Height (with terminals)	100mm
	Length	151mm
	Width	65mm
Weight (Approx)		2.5Kg

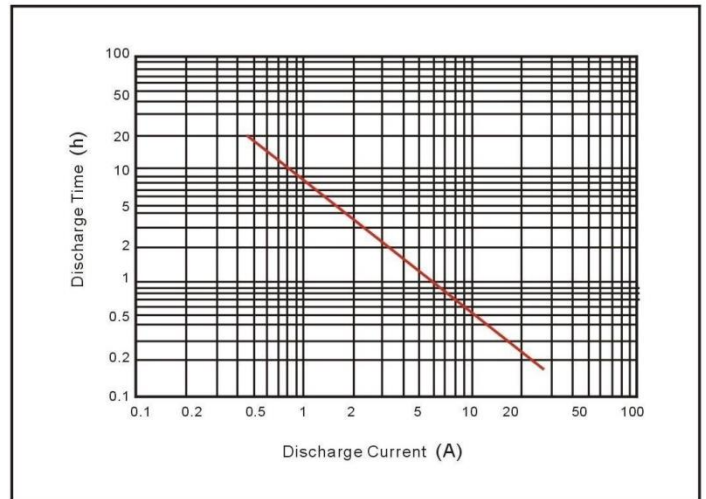
Characteristics

Capacity (25°C)	20 hours rate (0.45A)	9Ah
Discharge Current Testing (25°C)	20 I ₂₀ rate (9A, 27min) 60 I ₂₀ rate (27A, 7min)	40min 10min
Internal Resistance	Full Charged Battery 25°C	20mΩ
Capacity Affected By Temperature	40°C 25°C 0°C -15°C	102% 100% 85% 62%
Residual Capacity (25°C)	Capacity After 3 Months Storage Capacity After 6 Months Storage Capacity After 12 Months Storage	91% 82% 64%
Cycle (Above 300 Time) Design Life	Discharge 2hrs at 2.25A Current Charge 6hrs at 0.9A Current (25°C) Above 7 Years	
Charge (Constant Voltage)	Cycle (25°C)	Initial Charging Current Less Than 2.7A; Voltage 14.5~14.9V
	Float (25°C)	Charge Voltage 13.6~13.8V

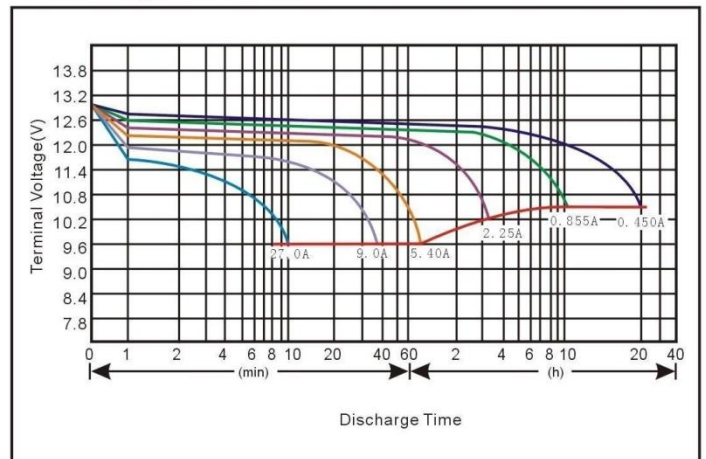
★ The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.



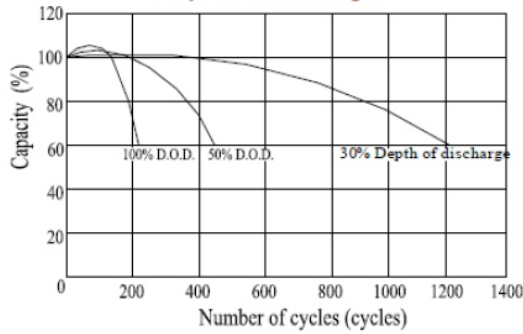
Discharge Current & Duration Time



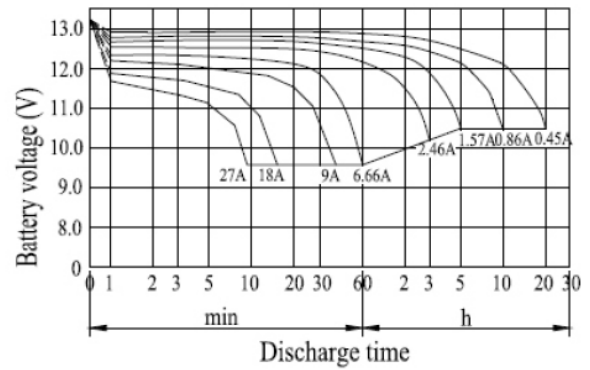
Discharge Current 25°C



Cycle service life in relation to depth of discharge



Discharge characteristic (25°C)



CONSTANT CURRENT DISCHARGE (Amperes) at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	36.1	25.2	19.3	11.6	6.66	2.59	1.62	0.88	0.47
1.65V	34.6	24.3	18.5	11.1	6.42	2.53	1.61	0.87	0.47
1.70V	33.1	23.3	17.7	10.5	6.18	2.46	1.59	0.87	0.46
1.75V	31.6	22.2	16.9	9.86	5.94	2.39	1.57	0.86	0.45
1.80V	30	21.2	16.1	9.21	5.68	2.32	1.55	0.85	0.44

CONSTANT POWER DISCHARGE (Watts per cell) at 25°C

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	74.1	47.2	35.1	21.5	15.9	12.4	6.85	4.84	3.27
1.65V	70.5	45.6	34	20.8	15.3	12	6.72	4.79	3.24
1.70V	66.9	43.9	32.9	20	14.7	11.5	6.59	4.74	3.21
1.75V	63.3	42.2	31.8	19.2	14.1	11	6.46	4.69	3.18
1.80V	59.7	40.5	30.7	18.4	13.5	10.5	6.32	4.64	3.15