




Neuton Power NP series valve regulated lead acid batteries are designed with AGM (Absorbent Glass Mat) technology and are rechargeable, highly efficient, leak proof and maintenance free.

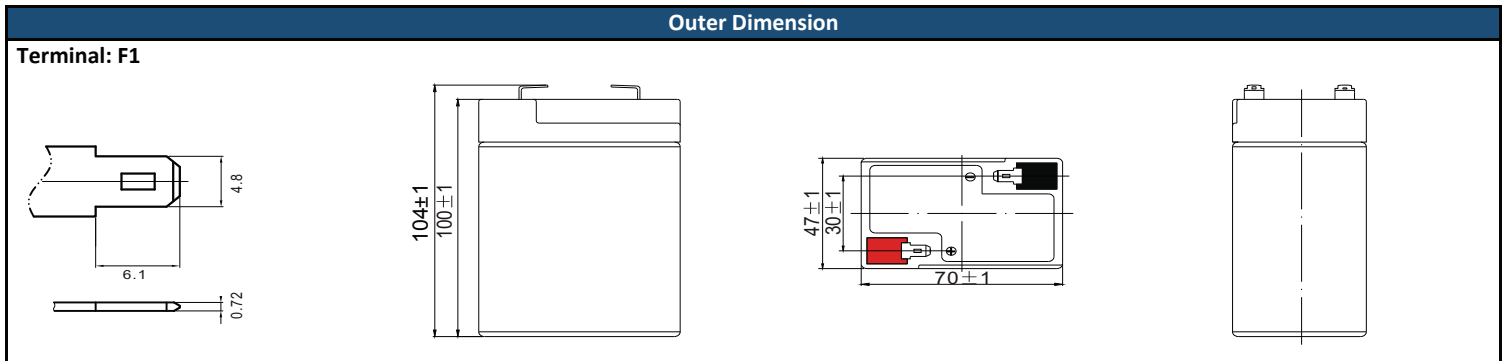
Applications

List of some of the more common applications for standby or principal power is given below:

- UPS • Telecom Systems • Solar Systems • Cable TV • Electric Wheelchair • Power Station • Marine Equipment • Military Equipment • Golf Car • Electric Fork • Emergency Power System • Railway System

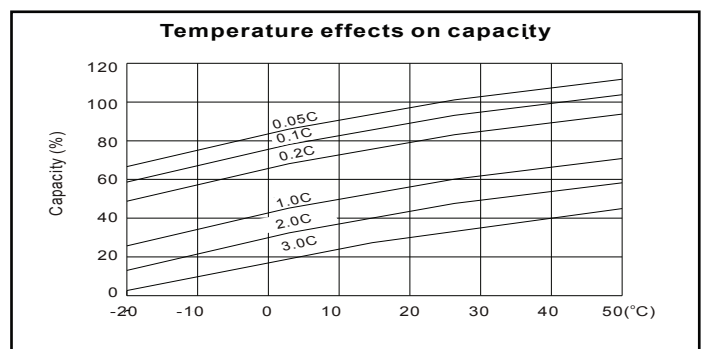
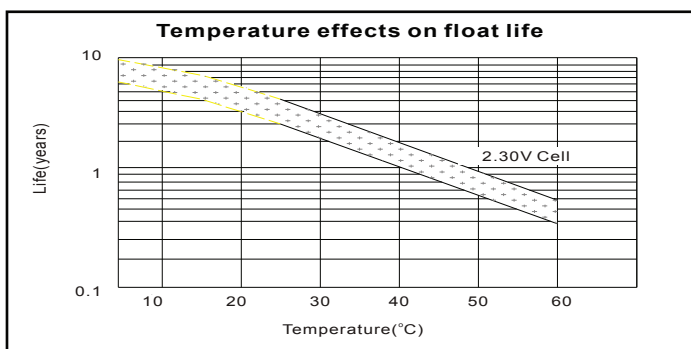
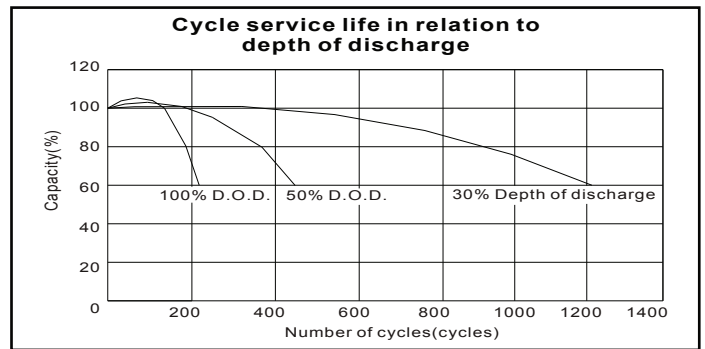
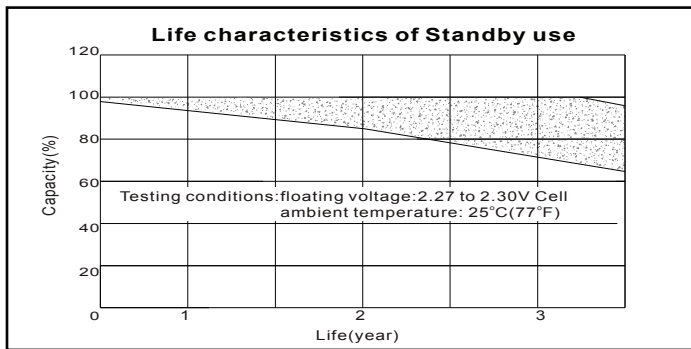
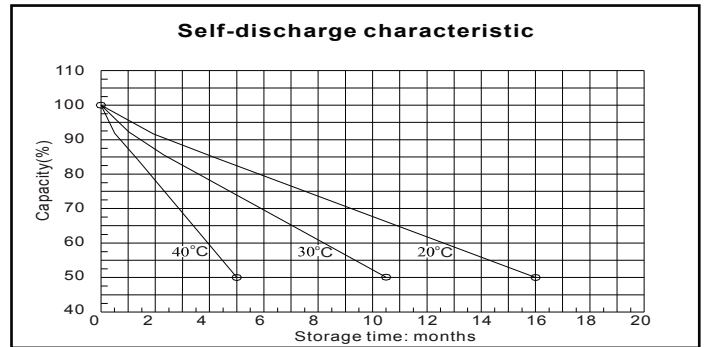
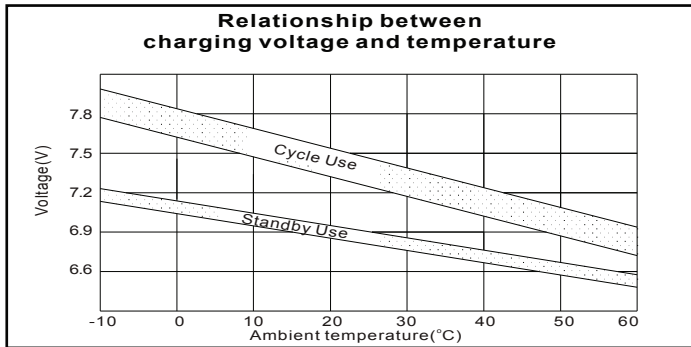
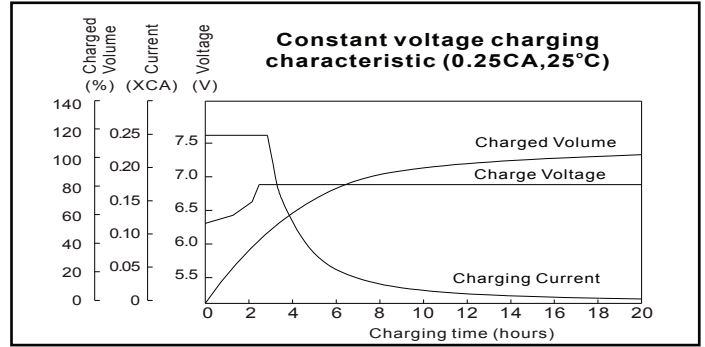
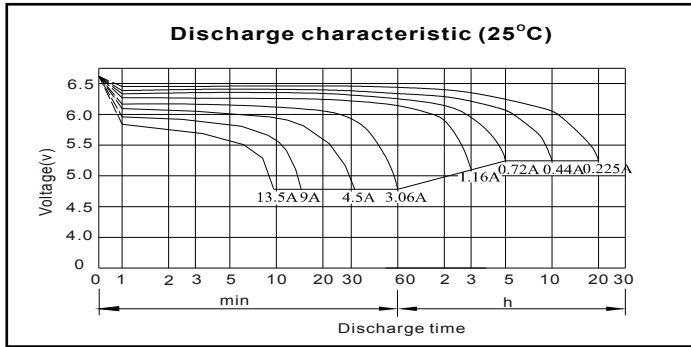
Performance Characteristics			
General Information	Length	70mm (2.76 inch)	
	Width	47mm (1.85 inch)	
	Height	100mm (3.94 inch)	
	Total Height	104mm (4.09 inch)	
	Approx Weight	0.78 Kg	
	Nominal Voltage	6 Volt	
	Number of Cells	3	
	Nominal Capacity (20 hour rate)	4.5 Ah	
	Design Life	3 ~ 5 Years	
	Terminal	F1	
Casing Material	Standard	ABS	
	Optional - V0 Class Flame Retardant	ABS	
Nominal Capacity 77°F (25°C)	20 hour rate	(0.225A, 5.25V)	4.5 Ah
	10 hour rate	(0.44A, 5.25V)	4.4 Ah
	5 hour rate	(0.72A, 5.25V)	3.6 Ah
	1 hour rate	(3.06A, 4.80V)	3.06 Ah
Internal Resistance	Fully Charged Battery 77°F (25°C) ≤ 27 mOhms		
Self Discharge	3% of capacity declined per month at 20°C (average)		
Operating Temperature Range	Discharge	-20 ~ 60°C	
	Charge	-10 ~ 60°C	
	Storage	-20 ~ 60°C	
Max. Discharge 77°F (25°C)	67.5A (5s)		
Short Circuit Current	225A		
Charge Methods	Constant Voltage Charge 77°F (25°C)		
	Cycle use 2.40 - 2.45VPC		
	Standby use 2.20 - 2.30VPC		
	Temperature compensation -10mV/°C		
Battery Certification	Maximum charging current 1.8A		
			

Battery Construction								
Component	Positive Plate	Negative Plate	Container	Cover	Safety Valve	Terminal	Separator	Electrolyte
Raw Material	Lead Dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric Acid



Constant Current Discharge Data (Amperes at 25°C)									
End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	16.0	11.20	9.00	4.80	3.06	1.24	0.78	0.47	0.233
1.65V	15.2	10.70	8.60	4.61	2.95	1.20	0.76	0.46	0.231
1.70V	14.3	10.10	8.19	4.41	2.83	1.16	0.74	0.45	0.228
1.75V	13.4	9.50	7.77	4.19	2.71	1.11	0.72	0.44	0.225
1.80V	12.5	9.00	7.33	3.98	2.58	1.06	0.69	0.43	0.221

Constant Power Discharge Data (Watts per cell at 25°C)									
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	32.00	22.30	17.10	9.67	7.50	5.80	3.41	2.46	1.59
1.65V	30.00	21.00	16.30	9.18	7.14	5.56	3.31	2.40	1.56
1.70V	28.00	19.70	15.50	8.69	6.78	5.30	3.20	2.34	1.53
1.75V	26.00	18.40	14.80	8.18	6.40	5.05	3.08	2.27	1.50
1.80V	24.10	17.10	13.80	7.68	6.00	4.78	2.94	2.19	1.46



* The above characteristics data are average values obtained within three charge/discharge cycles not the minimum value. Neuton Power reserves the rights update the data information without prior notice.