NP1290M (VRLA AGM BATTERY)

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

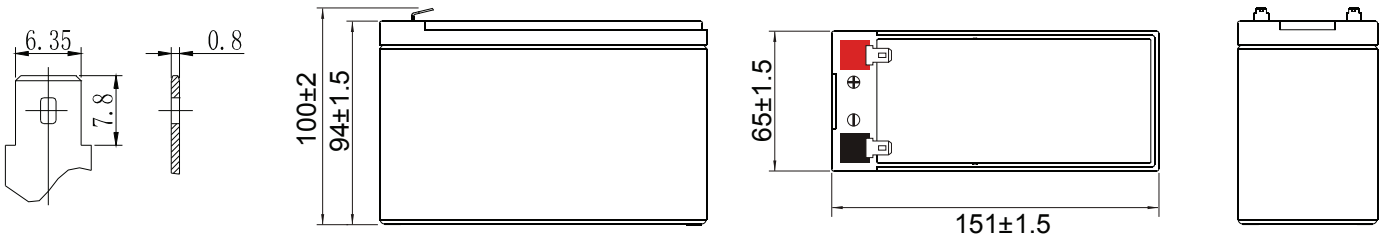
List of some of the more common applications for standby or principal power is given below:
• UPS • Telecom Systems • Solar Systems • Cable TV • Electric Wheelchair • Power Station • Marine Equipment • Military Equipment • Golf Car • Electric Fork • Emergency Power System • Railway System

Performance Characteristics			
General Information	Length		151mm (5.94 inch)
	Width		65mm (2.56 inch)
	Height		94mm (3.70 inch)
	Total Height		100mm (3.94 inch)
	Approx Weight		2.6 Kg
	Nominal Voltage		12 Volt
	Number of Cells		6
	Nominal Capacity (20 hour rate)		9.0 Ah
	Design Life		3 ~ 5 Years
	Terminal		F2
Casing Material	Standard		ABS
	Optional - V0 Class Flame Retardant		ABS
Nominal Capacity 77°F (25°C)	20 hour rate	(0.45A, 10.5V)	9.0 Ah
	10 hour rate	(0.82A, 10.5V)	8.2 Ah
	5 hour rate	(1.54A, 10.5V)	7.7 Ah
	1 hour rate	(5.8A, 9.6V)	5.8 Ah
Internal Resistance	Fully Charged Battery 77°F (25°C) ≤ 22 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)	135A (5s)		
Short Circuit Current	450A		
Charge Methods	Constant Voltage Charge 77°F (25°C)		
	Cycle use 2.40 - 2.45VPC		
	Standby use 2.20 - 2.30VPC		
	Temperature compensation -20mV/°C		
	Maximum charging current 3.6A		
Battery Certification	ISO14001 ISO9001 TB09075935 MH48127		

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

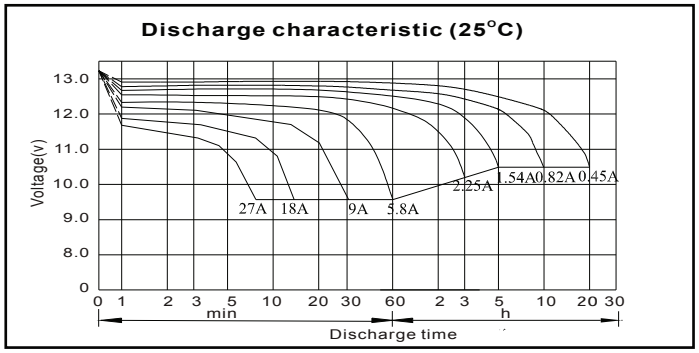
Outer Dimension

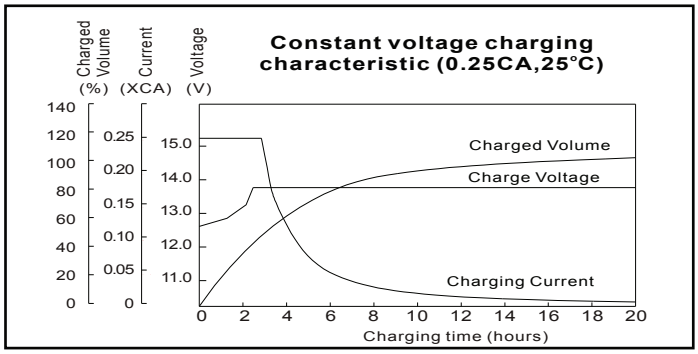
Terminal: F2

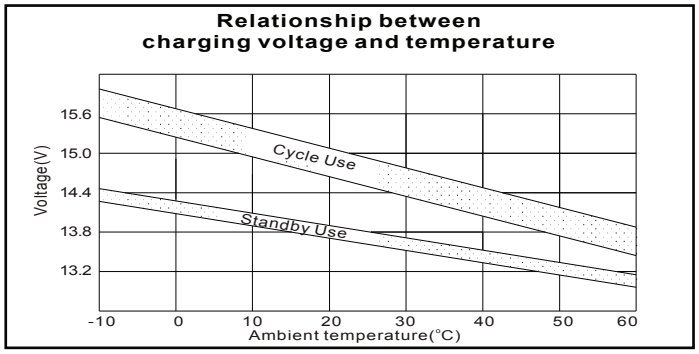


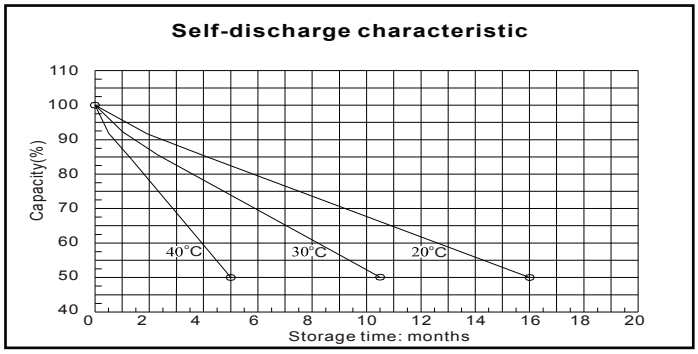
Constant Current Discharge Data (Amperes at 25°C)									
End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	33.0	24.2	17.0	9.90	5.80	2.33	1.60	0.87	0.47
1.65V	32.1	23.6	16.5	9.79	5.75	2.29	1.56	0.86	0.46
1.70V	30.9	22.9	16.1	9.36	5.71	2.25	1.55	0.84	0.46
1.75V	30.3	22.1	14.6	8.91	5.66	2.20	1.54	0.82	0.45
1.80V	29.6	21.0	13.9	8.45	5.51	2.14	1.53	0.82	0.44

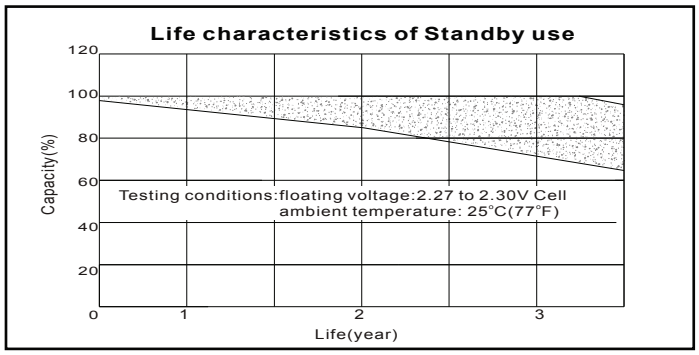
Constant Power Discharge Data (Watts per cell at 25°C)									
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	71.7	44.8	33.6	19.6	14.5	11.5	6.30	4.34	3.10
1.65V	68.3	44.3	33.1	19.1	14.2	11.2	6.23	4.29	3.04
1.70V	64.8	42.9	31.1	18.5	13.7	11	6.08	4.20	2.98
1.75V	61.4	41.1	30.2	17.6	12.9	10.7	5.94	4.08	2.92
1.80V	58.0	39.2	28.4	16.6	12.2	10.4	5.77	3.92	2.85

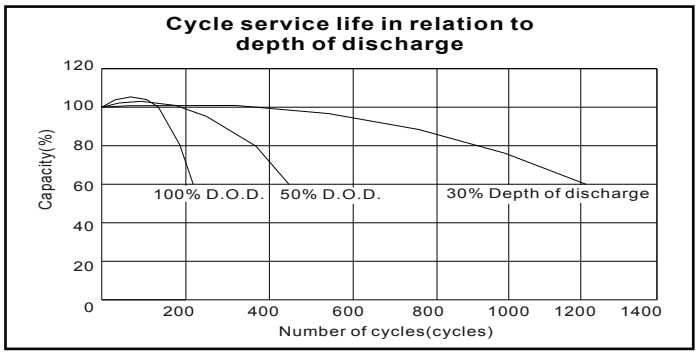


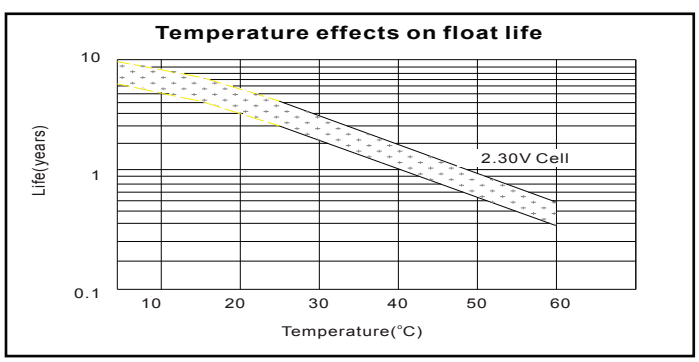


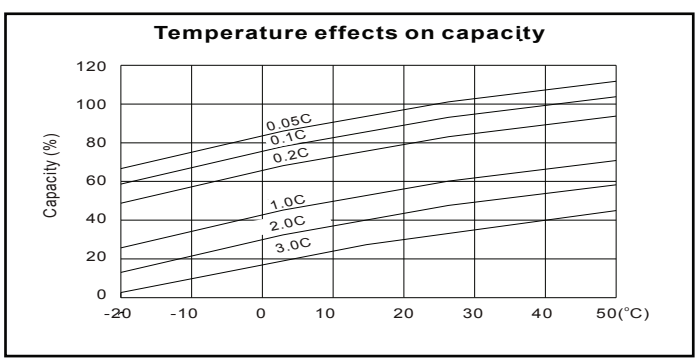












* The above characteristics data are average values obtained within three charge/discharge cycles not the minimum value. Neuton Power reserves the rights update the data information withour prior notice.