

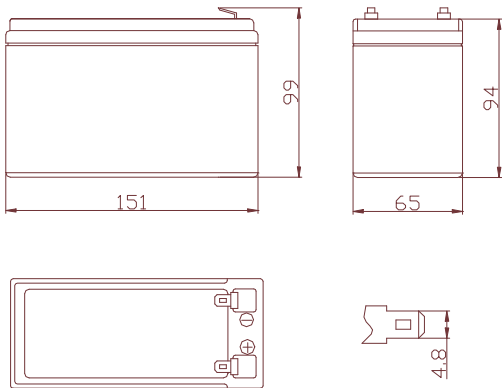


NP129 12V9Ah



The battery is constructed by plates, separators, safety valves and container.
 Since the electrolyte is held by a glassmat separator and plates, the battery can use in any direction and position without leakage.

Outer Dimensions



Dimensions and Weight

Length (mm / inch)	151 / 5.94
Width (mm / inch)	65 / 2.56
Height (mm / inch)	94 / 3.70
Total Height (mm / inch)	99 / 3.90
Approx.Weight(Kg / lbs)	2.80 / 6.16

Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	5 years
Nominal Capacity 77°F(25°C)	
20 hour rate(0.45A,10.5V)	9Ah
10 hour rate(0.84A,10.5V)	8.4Ah
5 hour rate (1.53 A,10.5V)	7.65Ah
1 hour rate(5.85A,9.6V)	5.85Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	30 mΩ
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operation Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max.Discharge Current 77°F(25°C)	135A(5s)
Short Circuit Current	270A

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

Charging Methods

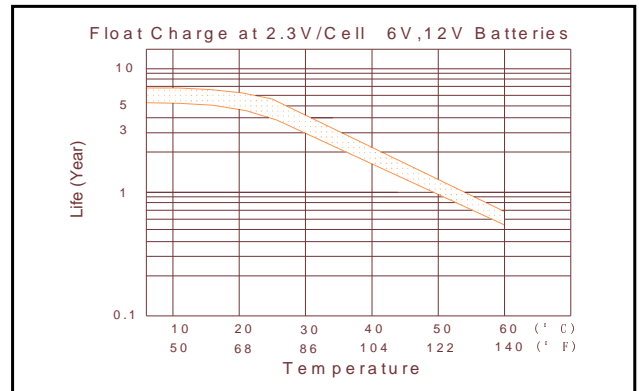
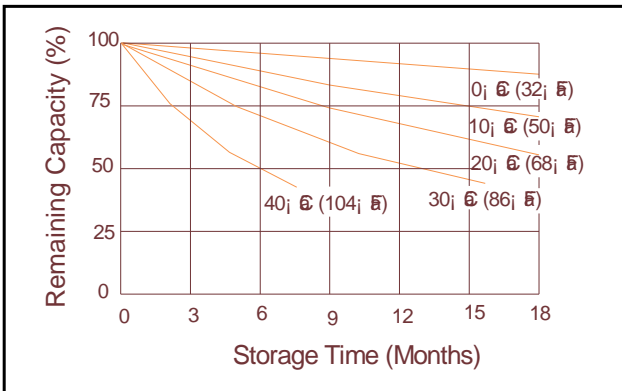
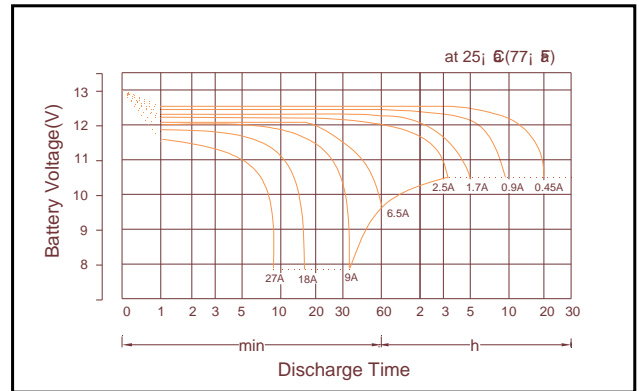
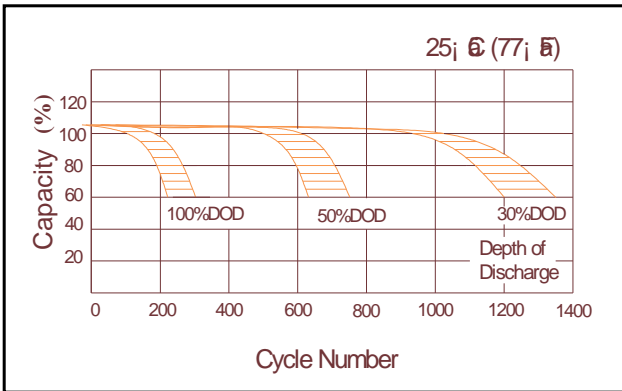
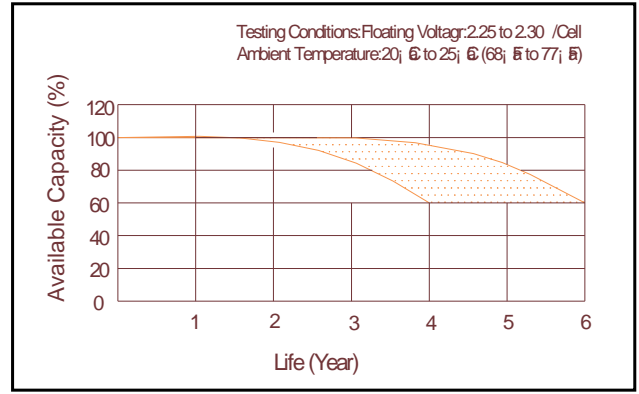
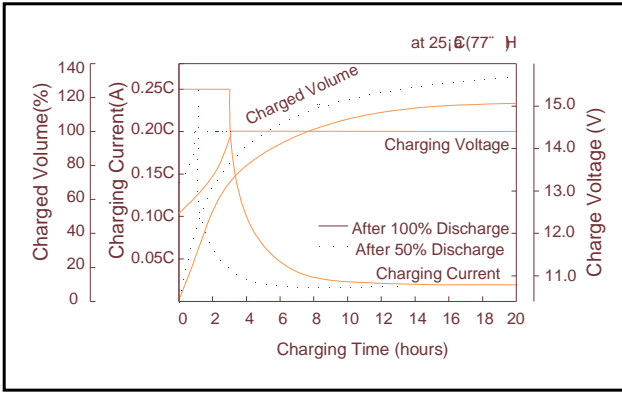
Application	Charging method	Charging Voltage at 25°C	Temperature compensation coefficient of charging voltage	Max.charging current	Charging time 25°C(h)		Temp (°C) (32~104°F)
					100% discharge	50% discharge	
For standby power source	Constant voltage & Constant Current Charging (with current restriction)	13.4-13.8V	-20 mV/°C	2.7A	24	20	0~40 (32~104°F)
For cycle service		14.5-15.0V	-30 mV/°C	2.7A	16	10	

*Temperature compensation of charging voltage is not needed when using the batteries within 15°C to 35°C range.



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Discharge Constant Current (Amperes at 77°F/25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
9.60V	31.5	25.2	18.0	10.4	7.38	5.85	3.15	2.28	1.55	1.02	0.85	0.45
9.90V	30.6	24.3	17.1	10.2	7.29	5.81	3.12	2.27	1.54	1.02	0.85	0.45
10.20V	28.8	22.5	16.2	9.90	7.20	5.76	3.11	2.25	1.53	1.01	0.84	0.45
10.50V	25.2	18.9	15.3	9.36	7.11	5.67	3.06	2.22	1.53	1.00	0.84	0.45
10.80V	22.5	16.2	14.4	8.10	7.02	5.58	2.97	2.16	1.51	1.00	0.82	0.44

Discharge Constant Power (Watts/cell at 77°F/25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
9.60V	344	276	199	120	84	67.5	36.3	26.3	17.9	11.8	9.9	5.40
9.90V	330	265	188	116	83	66.4	36.1	26.2	17.8	11.8	9.8	5.40
10.20V	314	249	179	111	82	66.4	35.8	26.1	17.7	11.8	9.8	5.34
10.50V	275	210	169	104	81.0	65.3	35.3	25.7	17.7	11.6	9.7	5.22
10.80V	246	189	159	90.2	79.9	64.3	34.2	25.0	17.6	11.6	9.5	5.16

