

BATTERIES

GP12-50 12V 50Ah(20hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore maintenance-free and leak proof. Batteries should be used in an upright position only.



Battery Construction

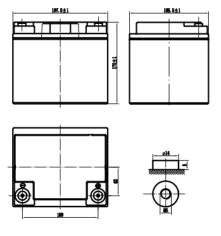
Component	Positive Plate	Negative Plate	Container	Cover	Safety Value	Terminal	Separator	Electrolyte
Raw Material	Lead Dioxide	Lead	ABS	ABS	Rubber	Copper	Fibreglass	Sulfuric Acid

General Features

- Positive and negative plates in lead-calcium-tin alloy.
- Stable Quality & High Reliability
- Sealed Construction.
- Long Service Life.
- Maintenance-Free Operation
- Low Pressure Venting System
- Low Self Discharge
- U.L. Component Recognition
- Six Month Shelf Life at 20°C
- Design life 10 Years

Dimensions and Weight

Length (mm/inch)	197.5/7.78
Width (mm/inch)	165.5/6.52
Height (mm/inch)	170/6.60
Total Height (mm/inch)	170/6.69
Approx. Weight (kg/lbs)	14.6/32.2



Performance Characteristics

- Nominal Voltage: 12V
- Number of Cells: 6
- Nominal Capacity 77°F (25°C)

10 Hour Rate (10.0A, 10.8V): 50.0Ah 5 Hour Rate (17.5A, 10.5V): 41.0Ah 1 Hour Rate (66.2A, 9.60V): 28.0Ah

Internal Resistance

Fully Charged Battery 77°F (25°C) 8.0m 0hms

Self-Discharge

3% of capacity declined per month at 20° (average)

Operating Temperature Range

Discharge: -20~60°C Charge: -10~60°C

Storage: -20~60°C

- Max. Discharge Current 77°F (25°C): 450A (5s)
- Short Circuit Current: 1050A

Charge methods: Constant Voltage Charge 77°F (25°C)

Cycle use: 2.40-2.45VPC
Maximum charging current: 13.5A
Temperature Compensation: -30mV/°C

Standby use: 2.20-2.30VPC

Temperature compensation: -20mV/°C









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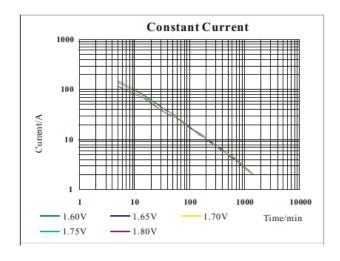
Discharge Data

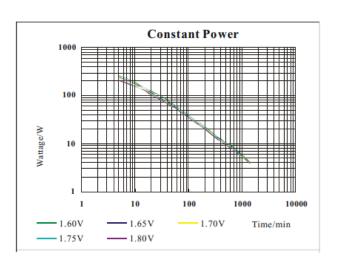
Discharge Constant Current (Amperes at 77°F/25°C)											
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	3h	5h	10h	24h	
1.60V	149	100	77.8	45.7	35.0	28.0	11.8	8.72	5.39	2.04	
1.65V	136	95	74.3	45.5	34.4	27.6	11.6	8.66	5.34	2.02	
1.70V	134	90	73.0	43.9	31.9	27.2	11.3	8.51	4.29	2.02	
1.75V	118	85	69.0	39.9	31.2	26.9	11.1	8.35	5.04	2.01	
1.80V	114	80	66.0	39.0	30.5	26.5	10.9	8.20	5.00	2.01	

The above characteristics data are average values obtained withing three charge/discharge cycles, not the minimum values.

Discharge Constant Power (watts at 77°F/25°C)									
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	263	187	147	98.6	74.6	59.2	33.2	24.5	15.8
1.65V	246	174	140	86.9	67.6	54.8	30.8	22.8	14.8
1.70V	232	166	135	83.8	65.3	54.0	30.4	22.5	14.7
1.75V	212	156	127	81.8	64.1	53.1	30.0	22.3	14.5
1.80V	203	153	126	80.0	63.0	52.3	29.6	22.0	14.2

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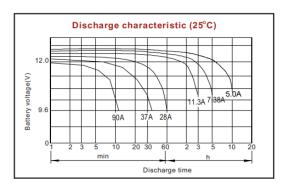


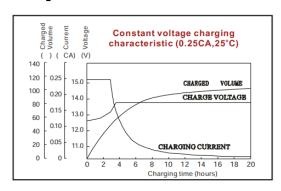
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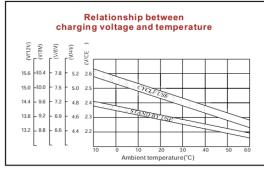


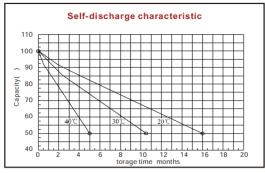
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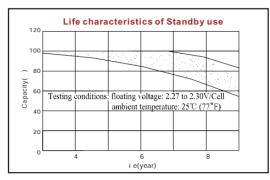
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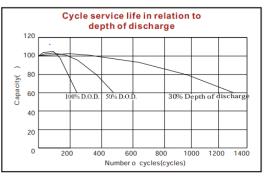


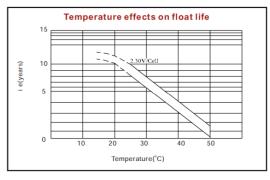


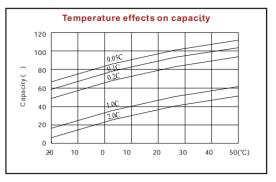
















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