



Hercules 100-12

12V100Ah

Product Features

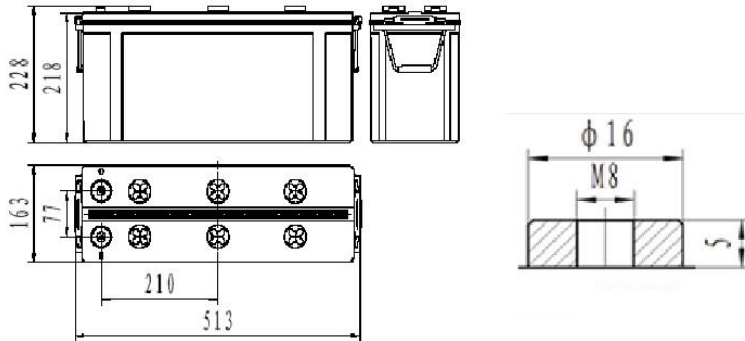
- Sulfuric acid immobilized as a gel using the gaseous SiO₂ which imported from Germany as main electrolyte, The GEL state electrolyte prevents leakage and layering;
- Low resistance PVC-SiO₂ micro-porous separator ensure low internal resistance;
- Paste type, thick plate design, good corrosion resistance, long service life;
- Advanced gel technology, the battery has good charge acceptance ability and good performance in poor power supply condition.

Application

- Telecom
- Nuclear power, standby power supply
- Renewable Energy;
- CATV
- General electronic
- EPS/UPS

Compliant Standards

- IEC 60896-21/22: 2004
- IEC 61427-2005
- DIN43539-T5 1984
- YD/T1360-2005
- GB/T 22473-2008
- Passed ISO9001、ISO14001、OHSAS18001、UL and CE certificate



Battery Model	Hercules 100-12			
Designed Life	12 Years			
Capacity(25°C)	10HR(10A,1.80V)	5HR(17A,1.80V)	3HR(25A,1.80V)	1HR(55A,1.80V)
	100AH	85AH	75AH	55AH
Dimensions	Length	Width	Height	Total Height
	513mm	163mm	218mm	228mm
Approx. Weight	44kg			
Internal Resistance	3.91mΩ			
Maximum Discharge Current	1104A(3 Sec.)			
Self Discharge	≤2% per months (25°C)			
Charge Voltage(25°C)	Cycle use		Float use	
	13.98V(-21mV/°C), max charge current:20A		13.38V(-21mV/°C)	



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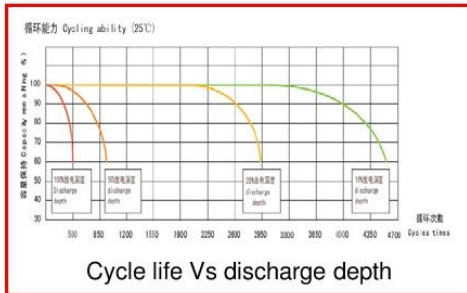
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Discharge parameter:

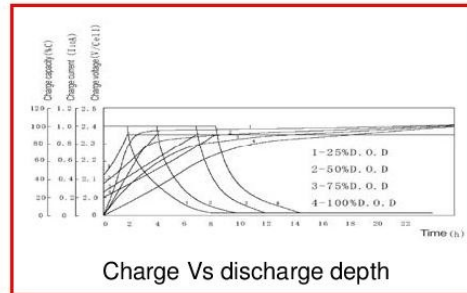
Constant current discharge data (25°C, A)																		
Endvoltage (V/cell)	5min	10 min	15 min	20 min	30 min	45 min	1h	1.5h	2h	3h	5h	10h	20h	24h	48h	100h	120h	240h
1.60	279.3	203.6	158.6	133.0	97.2	76.2	57.8	44.9	34.4	26.2	17.5	10.0	5.40	4.62	2.43	1.25	1.09	0.58
1.65	265.0	196.4	155.5	130.9	96.2	74.7	56.7	44.3	34.4	26.2	17.5	10.0	5.40	4.62	2.43	1.25	1.09	0.58
1.70	249.6	186.2	152.4	127.9	95.1	72.4	56.7	43.6	34.4	26.2	17.5	10.0	5.40	4.62	2.43	1.25	1.09	0.58
1.75	231.2	172.9	147.3	122.8	92.1	70.4	55.7	43.0	34.4	26.2	17.5	10.0	5.40	4.62	2.43	1.25	1.09	0.58
1.80	197.4	157.5	138.1	114.6	87.0	67.8	55.0	41.8	33.4	25.0	17.0	10.0	5.20	4.40	2.43	1.25	1.09	0.58

Constant power discharge data (25°C, W/cell)																		
Endvoltage (V/cell)	5min	10 min	15 min	20 min	30 min	45 min	1h	1.5h	2h	3h	5h	10h	20h	24h	48h	100h	120h	240h
1.60	493.0	369.3	289.9	243.3	182.3	137.1	106.8	83.0	65.0	47.1	32.2	19.0	10.2	9.15	4.86	2.50	2.20	1.17
1.65	458.6	355.7	283.5	240.4	180.7	135.9	104.9	82.4	65.0	47.1	32.2	18.8	10.2	9.15	4.86	2.50	2.20	1.17
1.70	419.3	336.1	274.0	235.5	178.2	134.0	104.9	81.6	65.0	47.1	32.2	18.8	10.2	9.15	4.86	2.50	2.20	1.17
1.75	386.5	311.5	265.5	226.6	173.6	130.9	103.0	80.8	65.0	47.1	32.2	18.6	10.2	9.15	4.86	2.50	2.20	1.17
1.80	359.6	284.0	253.5	212.3	165.4	126.2	101.6	78.9	63.4	45.9	30.5	18.1	9.92	8.80	4.86	2.50	2.20	1.17

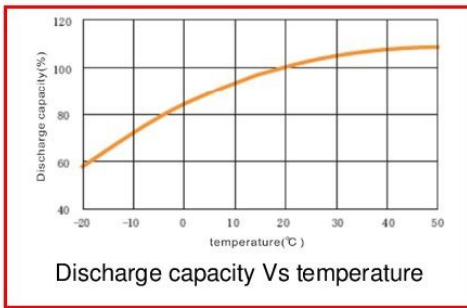
Performance Curve:



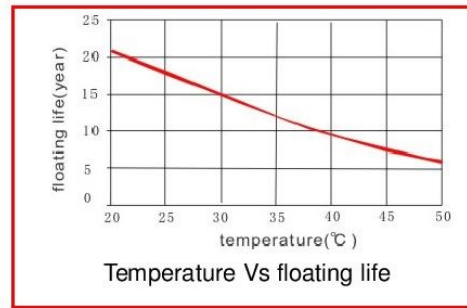
Cycle life Vs discharge depth



Charge Vs discharge depth



Discharge capacity Vs temperature



Temperature Vs floating life

