

### Product Features

- Special negative active material additives improved battery high and low temperature performance and charge acceptance ability;
- Special 4BS additives and high temperature curing process make battery have long cycle life;
- Compact assembly technology, effectively prevent the active material softening and shedding;
- Patent waterproof terminal structure design, suitable for underground use.

### Application

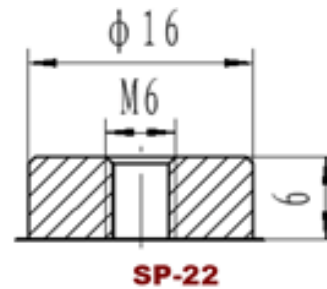
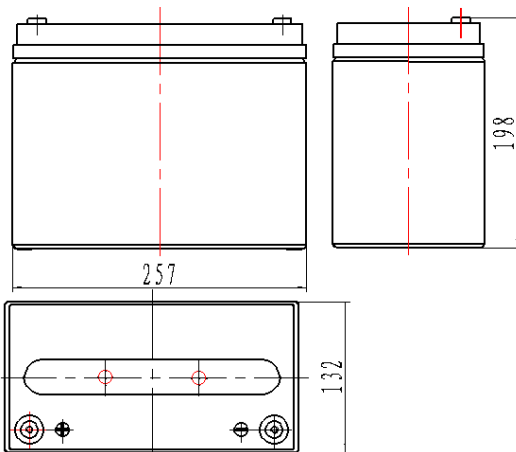
- Power supply system for solar energy and wind energy;
- Solar energy/wind energy street lamp, signal lamp;
- Frontier sentry Island garrison power supply system
- Remote monitoring system, and base station

### Compliant Standards

- GB/T 19639.1-2005;
- GB/T 22473-2008
- IEC 61427-2005
- Passed ISO9001、ISO14001、OHSAS18001 certificates
- Eurobat guide;

### Safety

- installation compliant with:EN50272-2

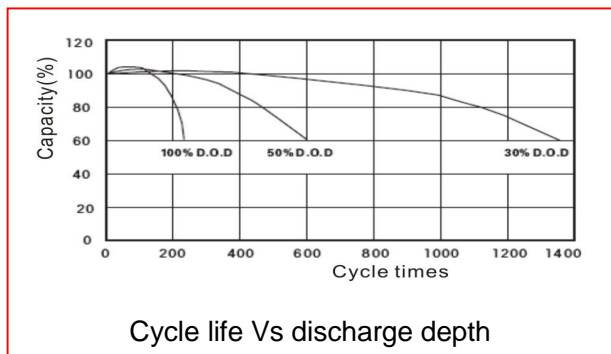
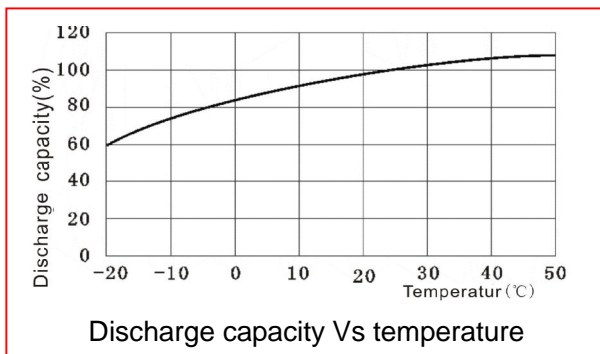
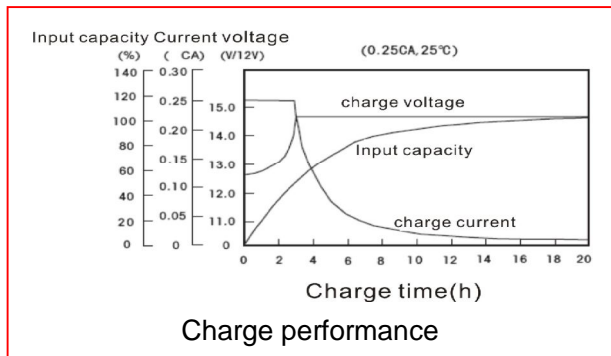
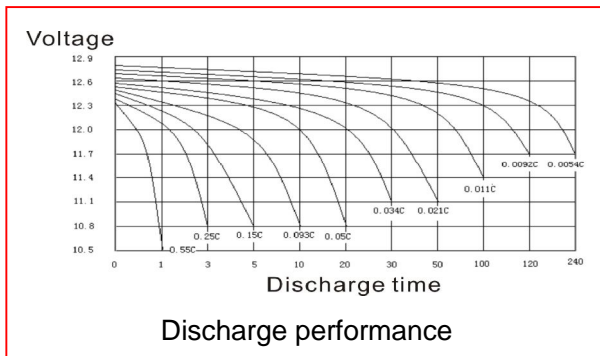


Battery Model	SPU12-50			
Designed Life	10 Years			
Capacity(25°C)	20HR(2.55A,1.80V)	10HR(5.0A,1.80V)	5HR(7.87A,1.80V)	3HR(11.8A,1.80V)
	51AH	50AH	39.35AH	35.4AH
Dimensions	Length	Width	Height	Total Height
	257mm	132mm	193mm	198mm
Approx. Weight	16.1kg			
Internal Resistance	7.5m Ω			
Short Circuit Current	1600A			
Self Discharge	≤2% per months (25°C)			
Charge Voltage(25°C)	Cycle use (≤20%DOD)		Cycle use (>20%DOD)	
	14.2V(-24mV/°C), max charge current:12.5A		14.6V(-24mV/°C)	

**Discharge parameter:**

Constant current discharge data (25°C, A)								
End voltage (V/cell)	3h	5h	10h	20h	50h	100h	120h	240h
1.70	12.50	8.090	5.132	2.602	1.046	0.557	0.486	0.257
1.75	12.20	8.000	5.077	2.591	1.043	0.553	0.482	0.256
1.80	11.80	7.870	5.000	2.550	1.030	0.550	0.479	0.254
1.85	11.30	7.570	4.801	2.467	1.003	0.535	0.467	0.248
1.90	10.50	7.040	4.470	2.291	0.933	0.504	0.442	0.234
1.95	9.100	5.990	3.797	1.949	0.794	0.428	0.375	0.200

Constant power discharge data (25°C, W)								
End voltage (V/cell)	3h	5h	10h	20h	50h	100h	120h	240h
1.70	23.00	15.45	9.914	5.123	2.083	1.110	0.968	0.522
1.75	22.70	15.32	9.859	5.113	2.079	1.106	0.967	0.522
1.80	22.20	15.15	9.750	5.062	2.063	1.106	0.966	0.521
1.85	21.50	14.64	9.389	4.908	2.013	1.079	0.942	0.510
1.90	20.30	13.69	8.755	4.571	1.875	1.017	0.893	0.480
1.95	17.90	11.80	7.455	3.896	1.598	0.865	0.760	0.412

**Performance Curve:**


ISO9001 ISO14001 OHSAS18001

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