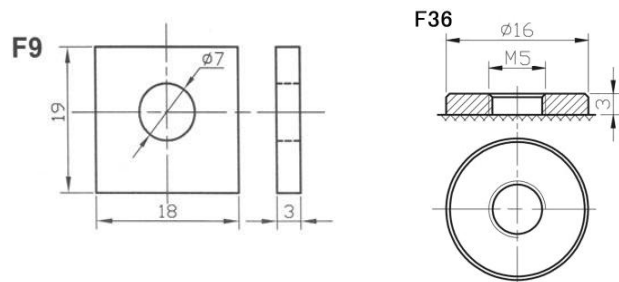


PV Battery (AGM Series)
Battery



Model: BT-HSE-38-12 (12V38AH)



Application

- ☆ Solar system
- ☆ Wind system

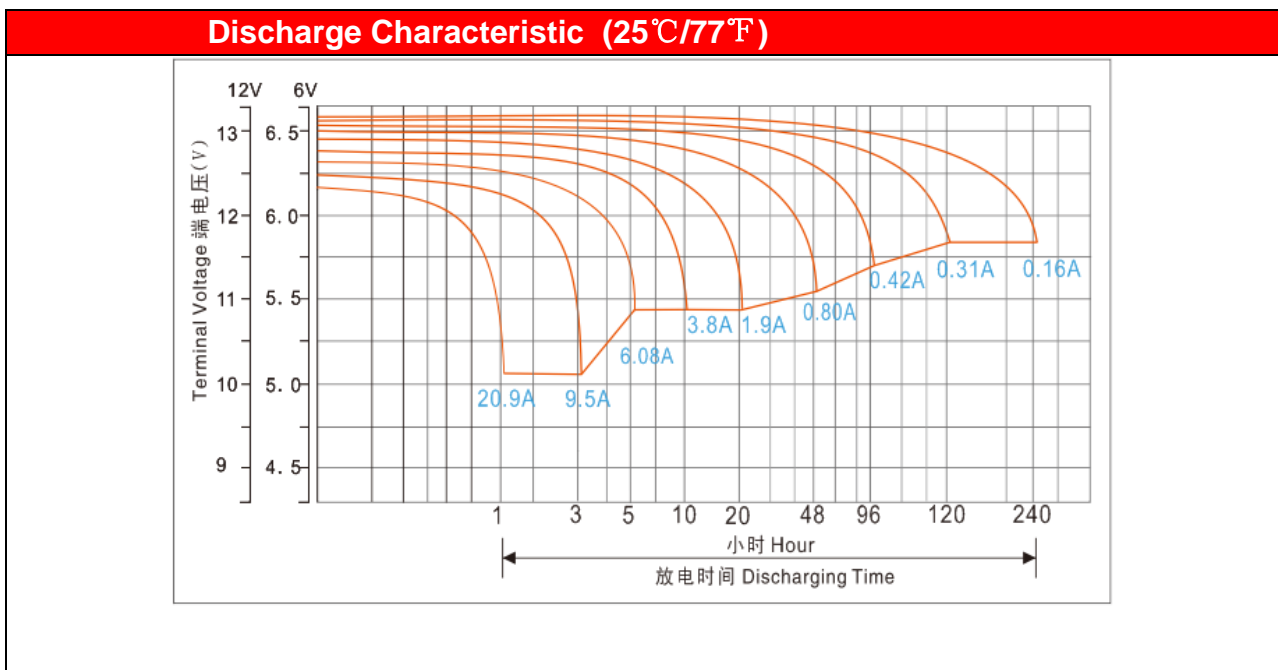
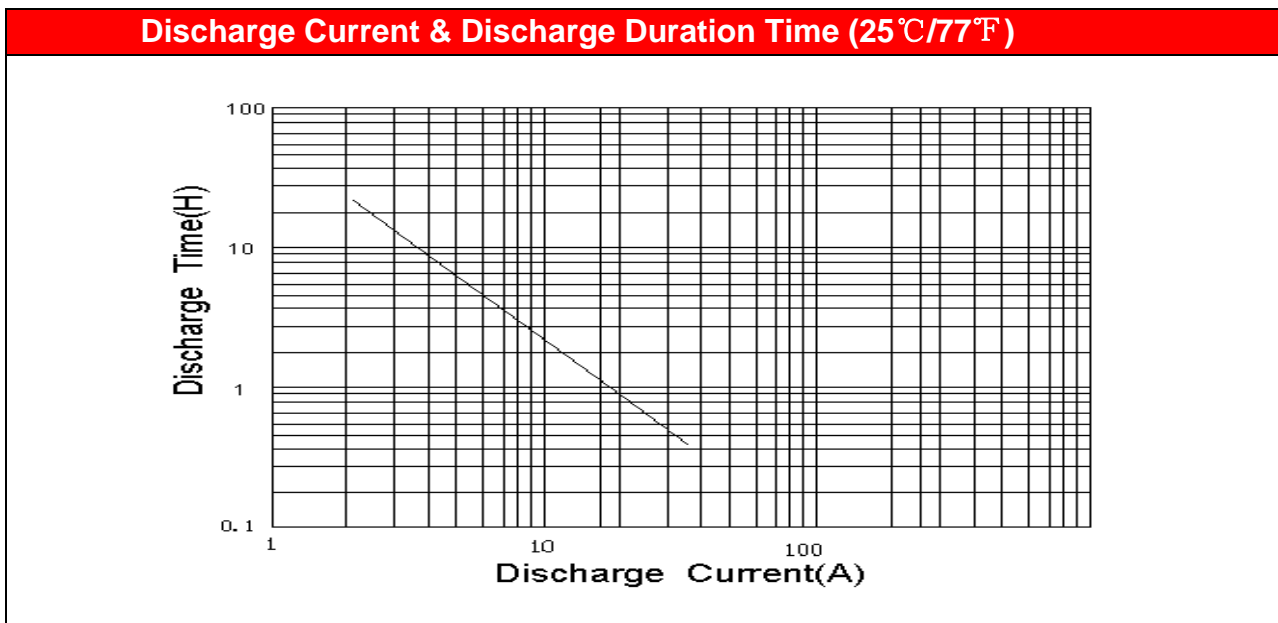
General Features

- ☆ Thick plates and high-density active material
- ☆ High power density
- ☆ Longer life in deep cycle applications
- ☆ Excellent recovery from deep discharge

PHYSICAL SPECIFICATIONS	
Nominal Voltage	
12V	
Nominal Capacity (10HR)	
38AH	
Dimensions	Length
	Width
	Container height
	Total Height (with terminal)
196±2mm	
165±2mm	
170±2mm	
170±2mm	
Weight±3%	
Approx 11.9Kg(26.2lbs)	
Internal Resistance(In full charge status)	
≈8.00mΩ	
Standard Terminals	
F9/F36(standard)	

ELECTRICAL SPECIFICATIONS	
Rated Capacity	10 hour rate(3.8A)
	20 hour rate(1.9A)
	120 hour rate(0.31A)
	240 hour rate(0.16A)
38AH	
40AH	
46AH	
46.8AH	
Capacity affected by Temperature (10Hour Rate)	40°C(104°F)
	25°C(77°F)
	0°C(32°F)
103%	
100%	
86%	

Constant – Voltage Charge	
Cycle application	<ol style="list-style-type: none"> 1. Limit initial current less than 9.5A. 2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C (77F). 3. Hold at 14.1V to 14.4V until current drop to under 0.228A for at least 3 hours. 4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby service	<ol style="list-style-type: none"> 1. Hold battery across constant voltage source of 13.6to 13.8 volts with current limit 9.5A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status. 2. Temperature compensation coefficient of charging voltage is -18mV/°C
<p>NOTE : The battery should be charged within 6 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation</p>	



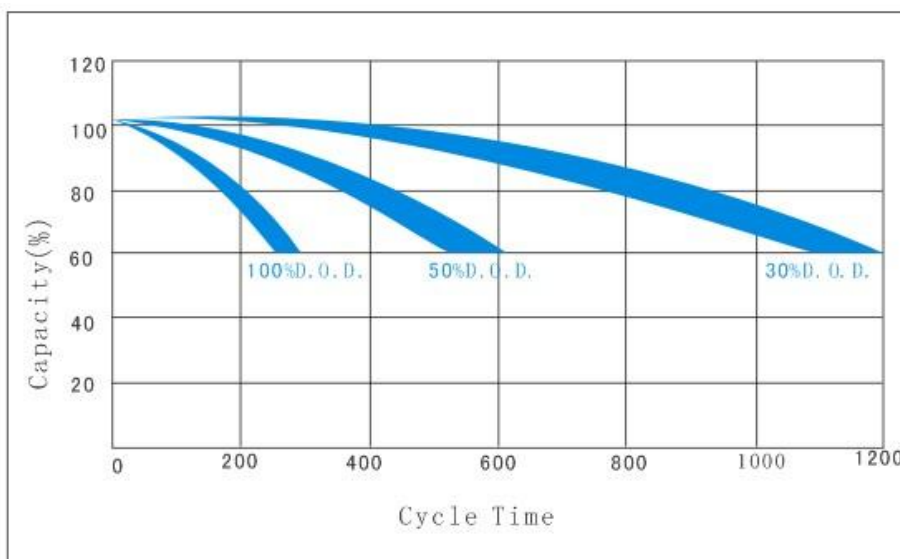
Constant Current Discharge Data Sheet (Amperes at 25°C)

End Voltage/cell	Hour (H)									
	1	2	4	8	10	20	48	96	120	240
1.70	22.26	13.78	8.46	4.68	3.876	1.996	0.912	0.478	0.397	0.203
1.75	21.11	12.98	8.08	4.64	3.857	1.977	0.908	0.474	0.393	0.201
1.80	20.15	12.20	7.68	4.61	3.838	1.957	0.896	0.470	0.390	0.200
1.85	18.67	11.42	7.28	4.49	3.780	1.938	0.883	0.468	0.384	0.198
1.90	17.41	10.62	6.86	4.36	3.723	1.900	0.869	0.466	0.378	0.196

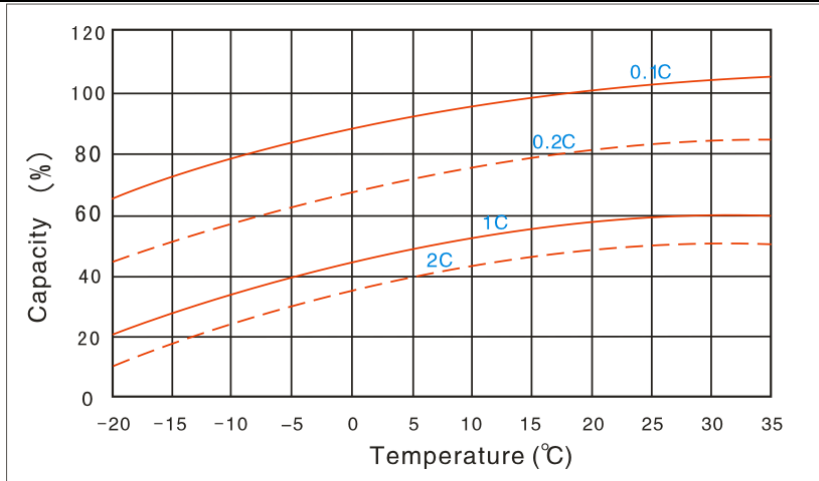
Constant Power Discharge Data Sheet (Watt at 25°C)

End Voltage/cell	Hour (H)									
	1	2	4	8	10	20	48	96	120	240
1.70	231.4	143.2	87.96	48.67	40.29	20.74	9.47	4.966	4.129	2.114
1.75	219.4	134.9	83.93	48.27	40.09	20.54	9.43	4.927	4.089	2.094
1.80	209.4	126.8	79.78	47.87	39.89	20.34	9.31	4.887	4.049	2.074
1.85	194.1	118.7	75.63	46.67	39.29	20.15	9.18	4.867	3.989	2.054
1.90	180.9	110.4	71.29	45.28	38.69	19.75	9.04	4.847	3.929	2.034

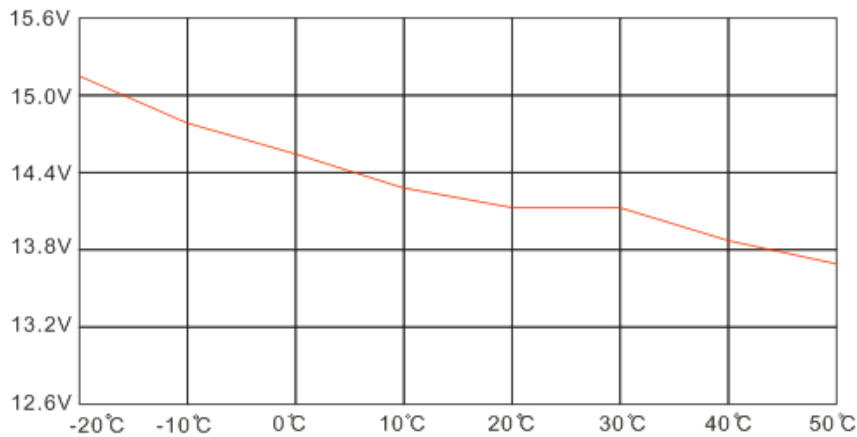
The Relationship Between Lifetime and Depth Of Discharge(25°C/77°F)



Capacity Curve at Different Temperature



Charge Voltage VS Ambient Temperature Curve



Storage Characteristics

