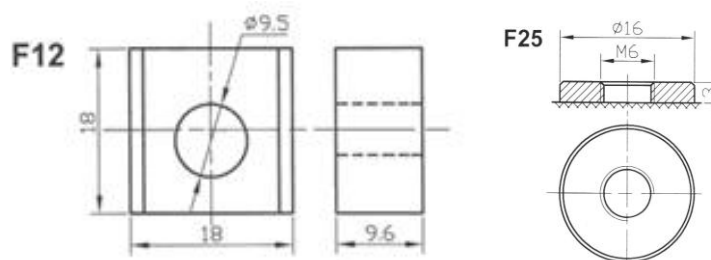


PV Battery(AGM Series) Battery



Model: BT-HSE-55-12 (12V55AH)



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

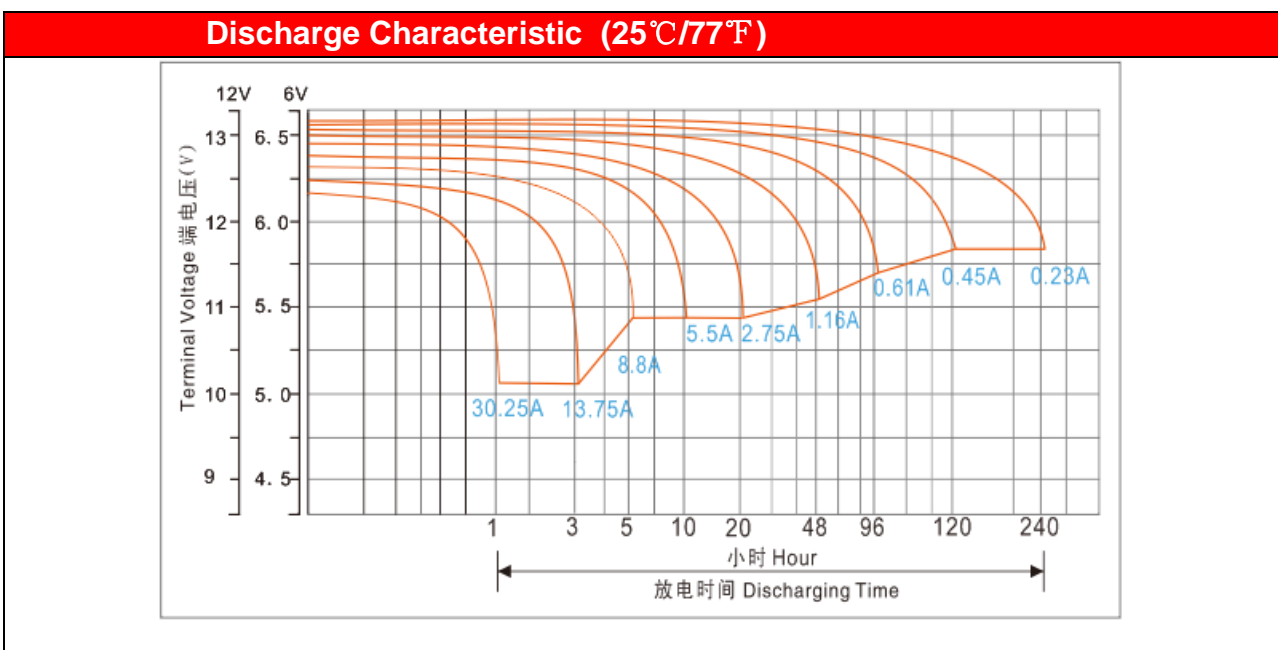
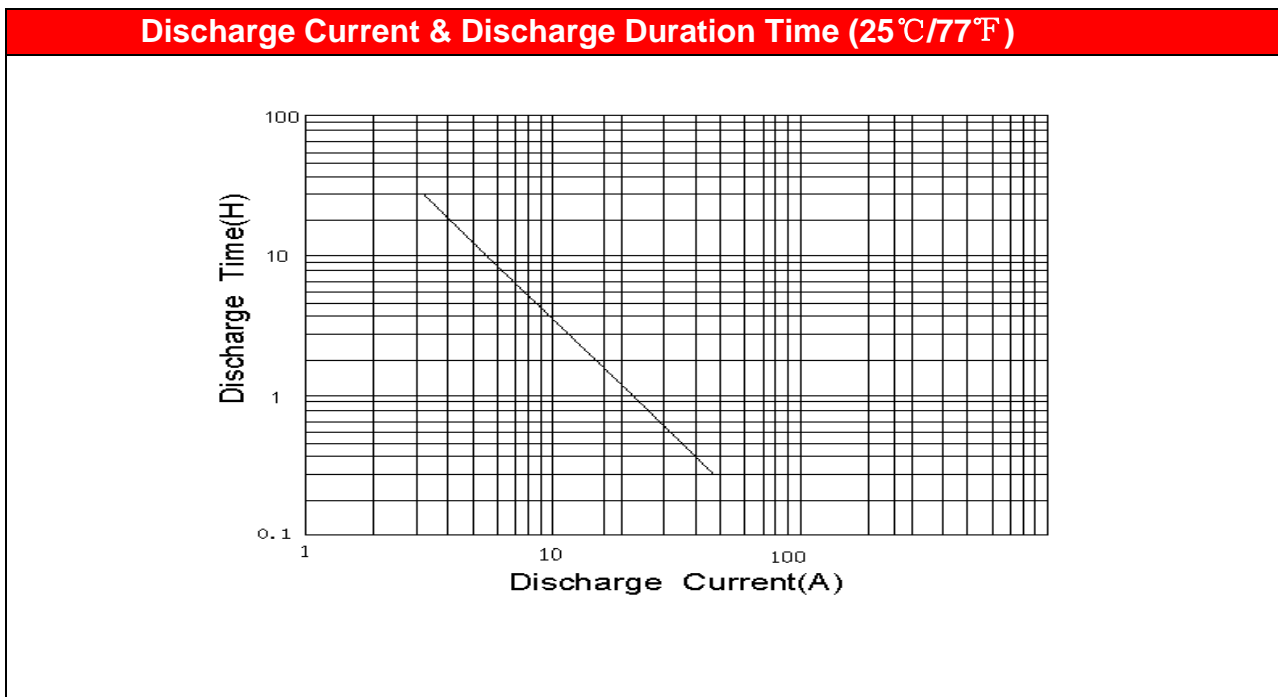
PHYSICAL SPECIFICATIONS

Nominal Voltage		12V
Nominal Capacity (10HR)		55AH
Dimensions	Length	229±2mm
	Width	139±2mm
	Container height	209±2mm
	Total Height (with terminal)	228±2mm
Weight±3%		Approx 15.5Kg(34.17lbs)
Internal Resistance(In full charge status)		≈5.45mΩ
Standard Terminals		F12/F25(standard)

ELECTRICAL SPECIFICATIONS

Rated Capacity	10 hour rate(5.5A)	55.0AH
	20 hour rate(2.75A)	57.5AH
	120 hour rate(0.45A)	61.5AH
	240 hour rate(0.23A)	62.6AH
Capacity affected by Temperature (10Hour Rate)	40°C(104°F)	103%
	25°C(77°F)	100%
	0°C(32°F)	86%

Constant – Voltage Charge	
Cycle application	<ol style="list-style-type: none"> 1. Limit initial current less than 13.75A. 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 0.33A 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 13.6 to 13.8 volts with current limit 13.75A 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>	



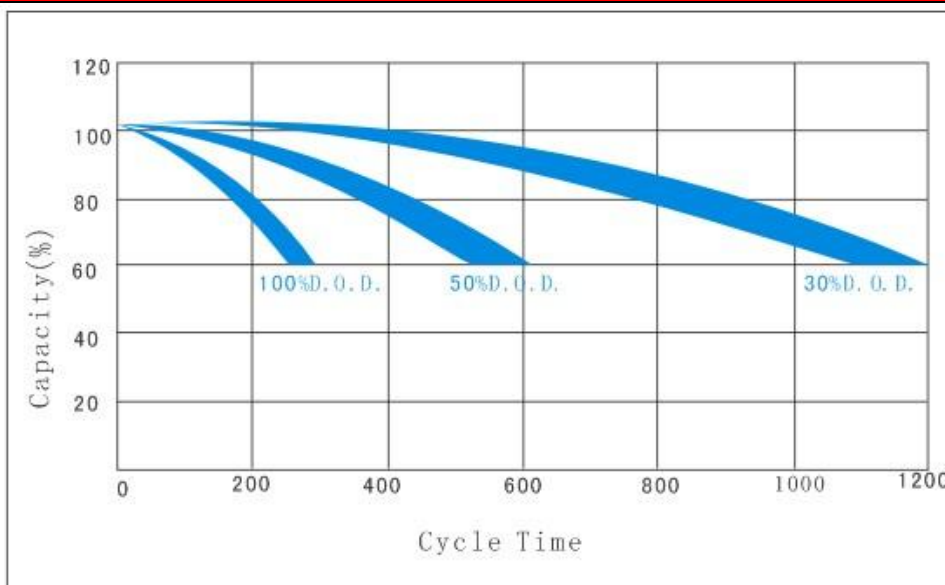
Constant Current Discharge Data Sheet (Amperes at 25°C)

End Voltage/cell	Hour (H)									
	1	2	4	8	10	20	48	96	120	240
1.70	32.22	19.94	12.25	6.777	5.611	2.889	1.319	0.692	0.575	0.294
1.75	30.55	18.78	11.69	6.722	5.583	2.861	1.314	0.686	0.569	0.292
1.80	29.16	17.65	11.11	6.666	5.555	2.833	1.297	0.680	0.564	0.289
1.85	27.03	16.53	10.53	6.499	5.472	2.805	1.278	0.678	0.556	0.286
1.90	25.19	15.37	9.927	6.305	5.388	2.750	1.258	0.675	0.547	0.283

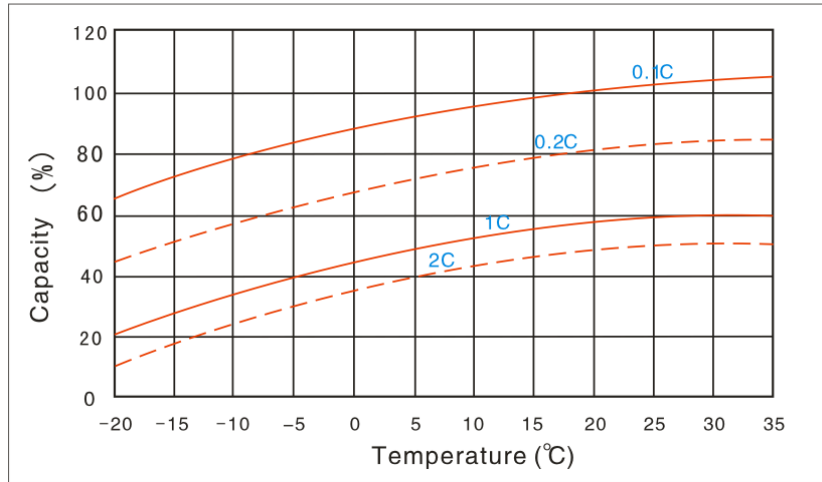
Constant Power Discharge Data Sheet (Watt at 25°C)

End Voltage/cell	Hour (H)									
	1	2	4	8	10	20	48	96	120	240
1.70	334.9	207.3	127.3	70.44	58.31	30.02	13.71	7.188	5.976	3.060
1.75	317.6	195.2	121.5	69.86	58.03	29.73	13.65	7.131	5.918	3.031
1.80	303.1	183.5	115.5	69.29	57.74	29.45	13.48	7.073	5.860	3.002
1.85	280.9	171.8	109.5	67.55	56.87	29.16	13.28	7.044	5.774	2.973
1.90	261.8	159.8	103.2	65.53	56.01	28.58	13.08	7.015	5.687	2.945

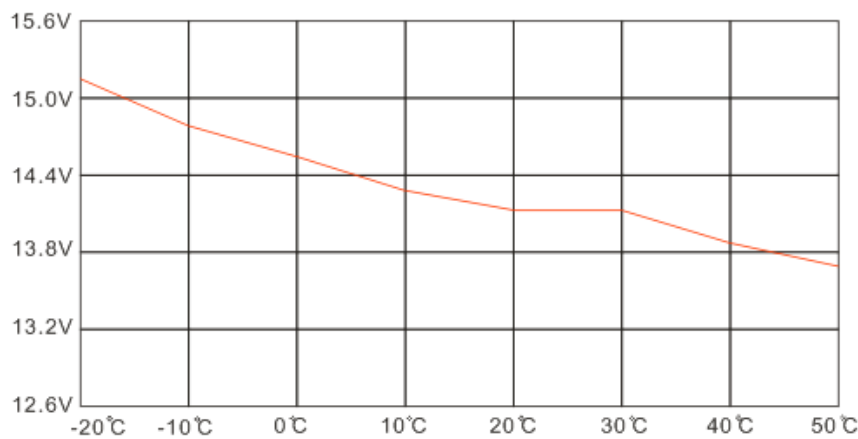
The Relationship Between Lifetime and Depth Of Discharge(25°C/77°F)



Capacity Curve at Different Temperature



Charge Voltage VS Ambient Temperature Curve



Storage Characteristics

