

## VRLA AGM Battery

BT-HSE-70-12 [12V70Ah]



### General Features

- Designed floating charging service life: 12 years (25°C)
- Sealed and maintenance free operation
- Safety valve installation for explosion proof
- Low self-discharge characteristic, approx 3% of capacity per month at 20°C (average)
- Wide operating temperature range from 0°C~40°C
- Lead-Aluminum-Calcium-Tin alloy high energy, prevent corrosion

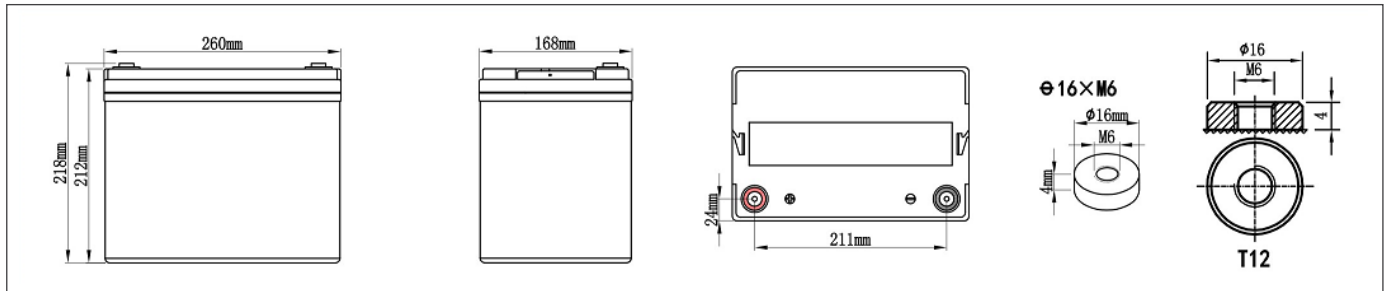
### Application

- DC power supply
- UPS/EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power stations
- Medical equipment
- Emergency lighting systems

### Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	70AH	260±3mm	168±2mm	212±3mm	218±3mm	Approx 22.0kg (48.5lbs)	≈ 5.89mΩ	T12 (standard)

### Dimensions



### Constant-Voltage Charge

Rated Capacity	
20 hours rate (3.5A)	75.0AH
10 hours rate (7.0A)	70.5AH
5 hours rate (11.9A)	59.5AH
3 hours rate (17.5A)	52.8AH
1 hour rate (42.0A)	42.0AH
Capacity affected by Temperature	
40°C (104°F)	103%
25°C (77°F)	100%
0°C (32°F)	86%

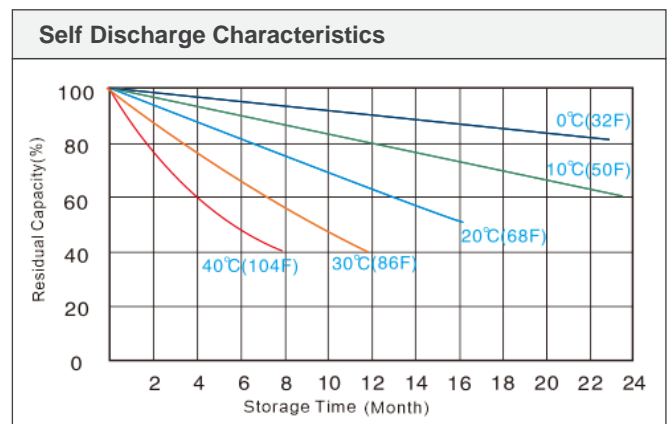
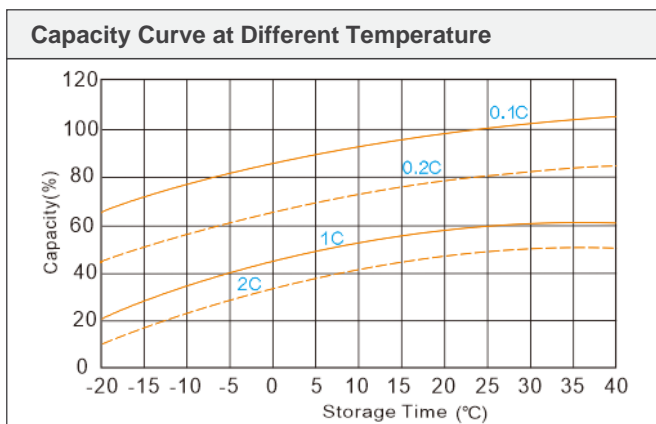
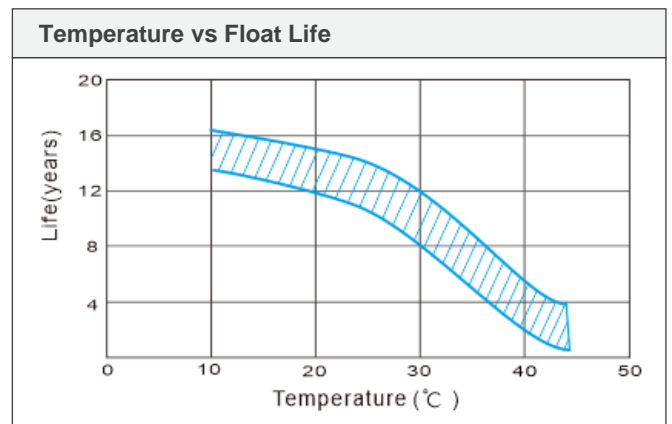
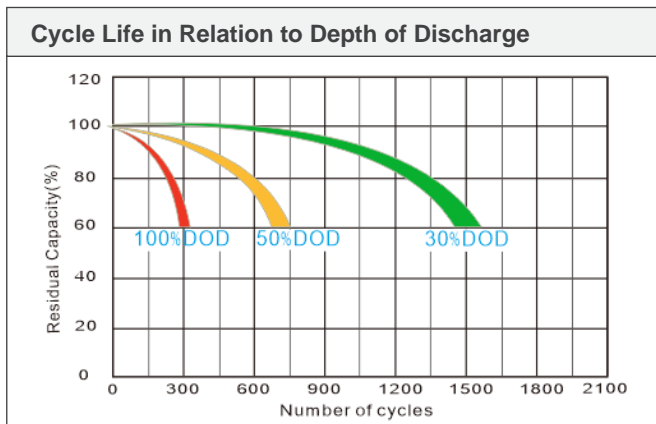
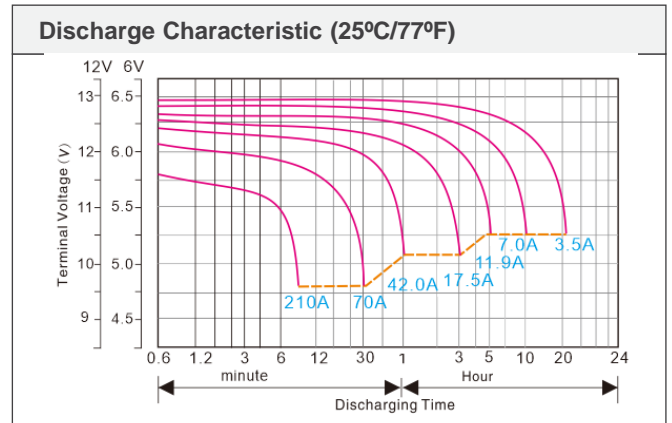
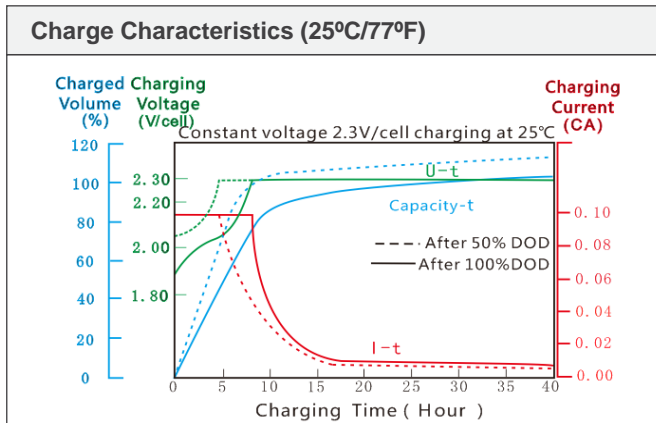
Cycle Application	
1.	Limit initial current less than 17.50A.
2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3.	Hold at 14.1V to 14.4V until current drop to under 0.42A for at least 3 hours.
4.	Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service	
1.	Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 17.50A 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.

**NOTE :** The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

# Battery Discharge Table

End Voltage	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
<b>Constant Current Discharge Data Sheet (@25°C) Unit: A</b>												
9.6V	170	135	76	65	44	35	29.6	18.7	12.7	8.7	7.31	3.85
9.9V	162	128	72	63	43	34	28.8	18.2	12.4	8.5	7.23	3.81
10.2V	154	122	69	61	42	33	28.1	17.8	12.1	8.4	7.16	3.77
10.5V	147	117	65	59	41	33	27.5	17.4	11.8	8.2	7.09	3.74
10.8V	140	111	62	57	40	32	26.8	16.9	11.5	8.1	7.02	3.70
<b>Constant Power Discharge Data Sheet (@25°C) Unit: W</b>												
9.6V	1824	1453	975	683	568	414	310	231	149	112.6	87.4	47.0
9.9V	1738	1383	928	660	555	404	303	225	145	110.4	86.5	46.6
10.2V	1655	1317	884	637	541	394	295	220	142	108.2	85.7	46.1
10.5V	1576	1255	842	616	528	384	288	214	138	106.1	84.8	45.7
10.8V	1501	1195	802	595	515	375	281	209	135	104.0	84.0	45.2

## Performance Characteristics



**FACTORY ADDRESS:**  
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