

# **Guangzhou Best Electronic Technology co., Ltd**

www.entelechyenergy.com

Address: 5/F, C District, No. 98, Road 9, Pacific Industrial Zone, Xintang Town, Zengcheng District, Guangzhou, China

# BST-12V 20Ah

### **Applications**

- > UPS/EPS
- ) Power systems
- > Telecommunicationssystem
- > Emergency lighting Auto control system
- > Solar/windgeneratingstorage cyclic
- Other general purpose

## Characteristics/

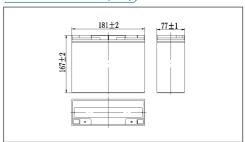
Congoity	20	HR(10.5V)	20Ah					
Capacity (25℃)	10	HR(10.5V)	18 <b>.</b> 5Ah					
(-2-7)	1	HR(9.60V)	12Ah					
Term	inal	type	T3/T12					
Internal (Fully ch			Approx.12m Ω					
Capacity		40℃	102%					
affected by	y	25℃	100%					
temperatur	е	0℃	85%					
(20HR)		-15℃	65%					
	3 months		Remaining Capacity:91%					
Self-discharge (25℃)		6 months	Remaining Capacity:82%					
(200)		12 months	Remaining Capacity:65%					
Nominal tempe			25℃ ±3℃(77°F ±5°F)					
Operating		Discharge	-15℃~50℃(5°F~122°F)					
temperatur	e e	Charge	-10℃~50℃(14°F~122°F)					
range		Storage	-20°C~50°C(-4°F~122°F)					
Float chargir	ng v	oltage(25℃)	13.50 to 13.80V Temperature compensation -18mV/°C					
Cyclic chargi	ng v	oltage(25℃)	14.50 to 15.00V Temperature compensation: -30mV/℃					
Maximum cl	harç	jing current	6A					
Maximum di	sch	arge current	300A(5 sec.)					
Designed flo	oatir	ng life(20℃)	5 years					



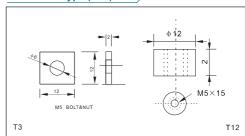
### Specifications

Nomin	al Voltage	12V				
Rated capac	ity (20 hour rate)	20Ah				
	Length	180±2mm(7.13inch)				
Dimensions	Width	77±1mm(3.03inch)				
Dimensions	Height	167±2mm(6.57inch)				
	Total Height	167±2mm(6.57inch)				
Approx	k. Weight	$5.5$ kg(12.1lbs) $\pm4\%$				

### Outer dimensions (mm)



### Terminal Type (mm)



### Construction

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

### Constant Current Discharge Characteristics Unit: A(25℃,77°F

	F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
ĺ	9.60V	76.4	48.4	37.8	21.3	13.1	7.17	4.96	4.10	3.49	1.89	1.02
	9.90V	74.1	46.9	36.9	20.9	12.9	7.12	4.93	4.08	3.47	1.89	1.01
	10.2V	71.1	45.0	35.5	20.2	12.6	7.06	4.89	4.05	3.44	1.88	1.01
	10.5V	68.0	43.1	34.3	19.7	12.3	6.95	4.86	4.02	3.42	1.87	1.00
	10.8V	64.2	40.7	32.5	19.0	11.9	6.78	4.71	3.90	3.32	1.83	0.98

## Constant Power Discharge Characteristics Unit:W(25℃,77℃)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	853	546	431	244	152	83.8	58.9	48.8	41.7	22.7	12.2
9.90V	827	530	421	239	149	83.3	58.5	48.5	41.4	22.6	12.1
10.2V	793	508	405	232	146	82.6	58.1	48.2	41.1	22.5	12.1
10.5V	759	486	391	226	143	81.4	57.7	47.9	40.8	22.4	12.0
10.8V	716	459	371	218	138	79.3	56.0	46.4	39.6	21.9	11.8

 $Note: The\ above\ characteristics\ data\ can\ be\ obtained within three\ charge\ or\ discharge\ cycles.$ 



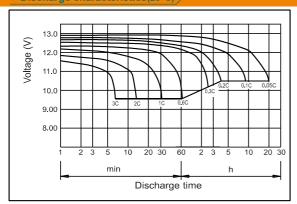
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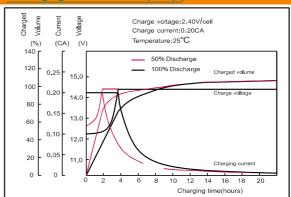
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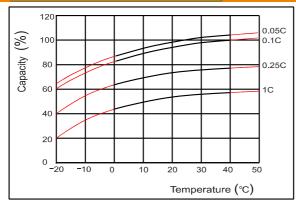
### Discharge characteristics(25°C)



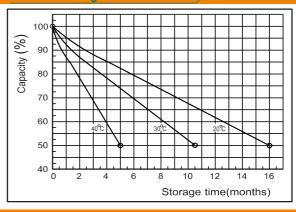
#### Charging characteristics (25°C)



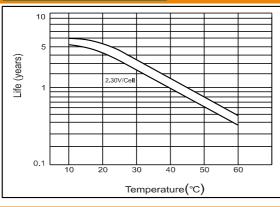
### Effect of temperature on capacity



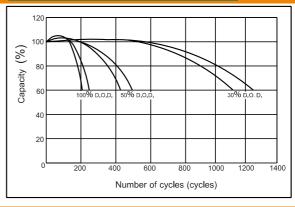
#### Self-discharge characteristics



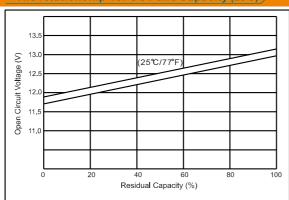
### Floating life on temperature



### Cycle life on D.O.D(25℃)



### The relationship for OCV and Capacity (25°C) /



### The relationship for Charging voltage and Temperature

