

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
- > Telecommunications system
- > Emergency lighting . Auto control system
- > Solar/wind generating storage cyclic
-) Other general purpose

Characteristics

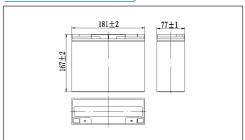
• Onaracteristics								
20HR(10.5V)	20Ah							
10HR(10.5V)	18.5Ah							
1HR(9.60V)	12Ah							
nal type	T3/T12							
	Approx.12m Ω							
40℃	102%							
25℃	100%							
9 0℃	85%							
-15℃	65%							
3 months	Remaining Capacity:91%							
6 months	Remaining Capacity:82%							
12 months	Remaining Capacity:65%							
	25℃ ±3℃(77°F ±5°F)							
Discharge	-15℃~50℃(5°F~122°F)							
Charge	-10℃~50℃(14°F~122°F)							
Storage	-20°C~50°C(-4°F~122°F)							
g voltage(25℃)	13.50 to 13.80V Temperature compensation: -18mV/°C							
g voltage(25℃)	14.50 to 15.00V Temperature compensation: -30mV/℃							
arging current	6A							
charge current	300A(5 sec.)							
ating life(20℃)	5 years							
	10HR(10.5V) 1HR(9.60V) nal type resistance reged,25°C) 40°C 25°C 0°C -15°C 3 months 6 months 12 months perating reture Discharge Charge							



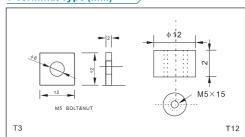
Specifications

Nomina	al Voltage	12V						
Rated capaci	ty (20 hour rate)	20Ah						
	Length	181±2mm(7.13inch)						
Dimensions	Width	77±1mm(3.03inch)						
Dimensions	Height	167±2mm(6.57inch)						
	Total Height	167±2mm(6.57inch)						
Approx	c. Weight	5.5kg(12.1lbs)±4%						

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.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
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.



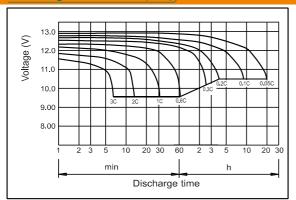
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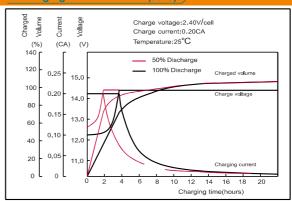
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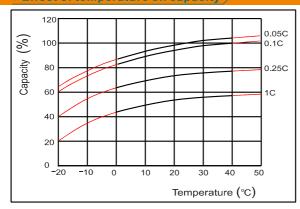
Discharge characteristics(25°C)



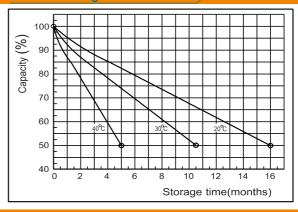
Charging characteristics (25°C)



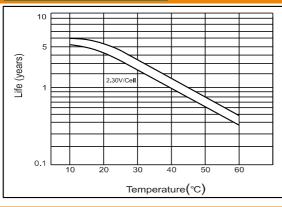
Effect of temperature on capacity



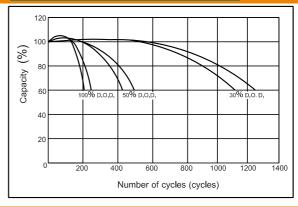
Self-discharge characteristics



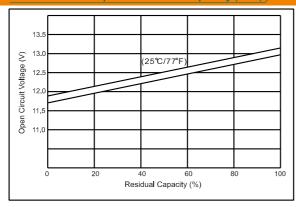
Floating life on temperature



Cycle life on D.O.D(25℃)



• The relationship for OCV and Capacity (25℃) /



• The relationship for Charging voltage and Temperature

