

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 50Ah

Applications

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

Characteristics

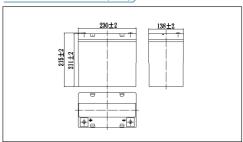
• Characteristics/								
Congoity	10	HR(10.8V)	50Ah					
Capacity (25℃)	3	HR(10.8V)	37.5Ah					
` ′	1	HR(10.5V)	27.5Ah					
Termi	nal	type	T14					
Internal (Fully ch			Approx.7m Ω					
Capacity		40℃	102%					
affected by	,	25℃	100%					
temperatur	е	0℃	85%					
(10HR)		-15℃	65%					
		3 months	Remaining 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	е	Charge	-10℃~50℃(14°F~122°F)					
range		Storage	-20℃~50℃(-4°F~122°F)					
Float chargin	ıg v	oltage(25℃)	13.50 to 13.80V Temperature compensation: -18mV/℃					
Cyclic chargi	ng v	oltage(25℃)	14.50 to 14.70V Temperature compensation: -30mV/℃					
Maximum ch	narg	jing current	10A					
Maximum di	scha	arge current	500A(5 sec.)					
Designed flo	atir	ng life(20℃)	12years					



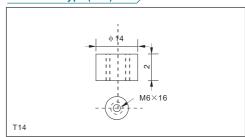
Specifications

Nomina	al Voltage	12V				
Rated capaci	ity (10 hour rate)	50Ah				
	Length	230±2mm(9.06inch)				
Dimensions	Width	138±2mm(5.43inch)				
Dimensions	Height	211±2mm(8.31inch)				
	Total Height	215±2mm(8.26inch)				
Approx	k. Weight	15.2kg(31.5lbs)±3%				

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	Gel	Rubber	Copper	

Constant Current Discharge Characteristics Unit:A(25℃,77℉)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	97.5	80.0	48.5	30.0	18.3	13.0	10.2	8.67	6.12	5.09	2.70
9.90V	94.6	78.1	47.5	29.6	18.2	12.9	10.1	8.62	6.08	5.08	2.69
10.2V	90.7	75.2	46.1	28.8	18.0	12.8	10.1	8.56	6.04	5.07	2.68
10.5V	86.8	72.6	45.0	27.9	17.7	12.8	10.0	8.50	6.00	5.04	2.67
10.8V	81.9	68.8	43.3	27.0	17.3	12.5	9.70	8.25	5.82	5.00	2.65

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

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1053	878	544	342	212	153	120	102	72.7	60.8	32.4
9.90V	1021	857	533	337	210	152	119	102	72.3	60.7	32.3
10.2V	979	826	517	328	208	151	118	101	71.8	60.5	32.2
10.5V	937	798	504	318	205	150	118	100	71.3	60.1	32.0
10.8V	885	755	486	308	200	147	114	97.5	69.1	59.7	31.8

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



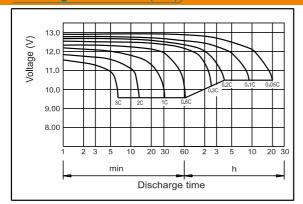
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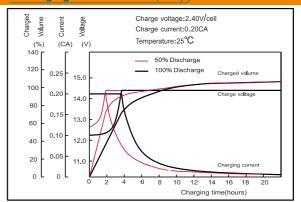
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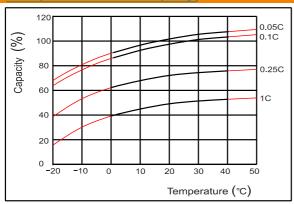
Discharge characteristics(25°C)



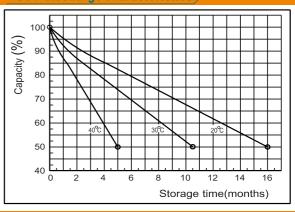
Charging characteristics (25°c)



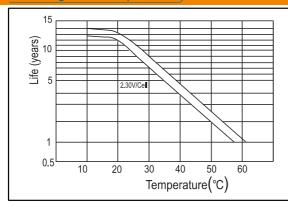
Temperature effects on Capacity



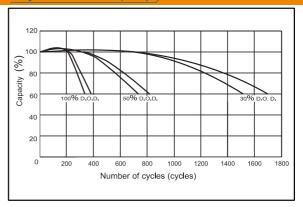
Self-discharge characteristics



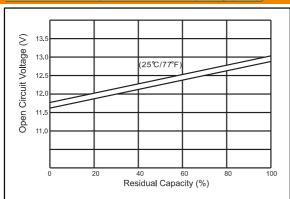
Floating life on Temperature



● Cycle life on D.O.D (25°C



lacktriangle The relationship for OCV and Capacity (25°C) \nearrow



The relationship for Charging voltage and Temperature

