

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 100Ah

Applications

-) UPS/EPS
-) Power systems
- > Telecommunications system
- > Emergency lighting Autocontrol system
- > Solar/wind generating storage cyclic
- Other general purpose

Characteristics

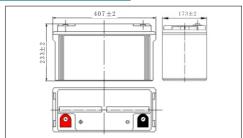
temperature range Charge -10℃~50℃(14°F~122°F Storage -20℃~50℃(-4°F~122°F 13.50 to 13.80V Temperature compensation—18mV/℃ 14.40 to 14.70V	Cilaracte	113	1103						
	Congoity	10)HR(10.8V)	100Ah					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		3	HR(10.8V)	75Ah					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1	HR(10.5V)	55Ah					
$(Fully charged,25^{\circ}C) \qquad Approx.5m\Omega$ $Capacity \\ affected by \\ temperature \\ (10HR) \qquad -15^{\circ}C \qquad 65\%$ $Self-discharge \\ (25^{\circ}C) \qquad 3 months \\ Emaining Capacity:91\% \\ \hline 12 months \qquad Remaining Capacity:82\% \\ \hline Nominal operating \\ temperature \\ \hline Operating \\ temperature \\ range \qquad Discharge \\ \hline Charge \qquad -15^{\circ}C>50^{\circ}C(5^{\circ}F\sim122^{\circ}F) \\ \hline Storage \qquad -20^{\circ}C>50^{\circ}C(-4^{\circ}F\sim122^{\circ}F) \\ \hline 13.50 to 13.80V \\ Temperature compensation \\ \hline Cyclic charging voltage(25^{\circ}C) \qquad 14.40 to 14.70V \\ Temperature compensation \\ \hline 14.40 to 14.70V \\ Tem$	Termi	inal	type	T16					
affected by temperature $0^{\circ}\mathbb{C}$ 85% $(10HR)$ $-15^{\circ}\mathbb{C}$ 65% Self-discharge $(25^{\circ}\mathbb{C})$ 3 months Remaining Capacity:91% 6 months Remaining Capacity:82% 12 months Remaining Capacity:65% Nominal operating temperature $25^{\circ}\mathbb{C} \pm 3^{\circ}\mathbb{C}(77^{\circ}\mathbb{F} \pm 5^{\circ}\mathbb{F})$ Operating temperature $25^{\circ}\mathbb{C} \pm 3^{\circ}\mathbb{C}(77^{\circ}\mathbb{F} \pm 5^{\circ}\mathbb{F})$ Charge $-10^{\circ}\mathbb{C} \times 50^{\circ}\mathbb{C}(14^{\circ}\mathbb{F} \times 122^{\circ}\mathbb{F})$ Float charging voltage(25° \mathbb{C}) 13.50 to 13.80 V Temperature compensational 14.40 to 14.70 V				Approx.5m Ω					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Capacity		40℃	102%					
$(10 \text{HR}) \\ \hline (10 \text{HR}) \\ \hline \\ -15 ^{\circ}\text{C} \\ \hline \\ 3 \text{ months} \\ \hline \\ 6 \text{ months} \\ \hline \\ 6 \text{ months} \\ \hline \\ 12 \text{ months} \\ \hline \\ 13 \text{ capacity:} 65\%$ $ \hline \\ 13 \text{ capacity:} 65\%$ $ \hline \\ 14 \text{ capacity:} 65\%$ $ \hline \\ 12 \text{ capacity:} 65\%$ $ \hline \\ 14 \text{ capacity:} 65\%$ $ \hline \\ 15 capaci$	' '	/	25℃	100%					
$Self-discharge (25^{\circ}) \\ \hline Self-discharge (25^{\circ}) \\ \hline \\ $	temperatur	е	0℃	85%					
	(10HR)		-15℃	65%					
(25°C) 12 months Remaining Capacity:82%			3 months	Remaining Capacity:91%					
12 months Remaining Capacity:65%		е	6 months	Remaining Capacity:82%					
temperature Operating temperature Charge -15°C~50°C(5°F~122°F -122°F -10°C~50°C(4°F~122°F -10°C~50°C(14°F~122°F -10°C~50°C -10°C~50°C -10°C~50°C -10°C~50°C -10°C~50°C -10°C~50°C -10°C~50°C -10°C	(200)		12 months	Remaining Capacity:65%					
temperature range Charge -10℃~50℃(14°F~122°F Storage -20℃~50℃(-4°F~122°F 13.50 to 13.80V Temperature compensation—18mV/℃ Cyclic charging voltage(25℃) 14.40 to 14.70V Temperature compensation 14.40 to 14.70V Temperature 14.40 to 14.40 to 14.70V Temperature 14.40 to 14.40				25℃ ±3℃(77°F ±5°F)					
temperature range Charge -10°C~50°C(14°F~122°F Storage -20°C~50°C(-4°F~122°F 13.50 to 13.80 V Temperature compensation -18mV/°C 14.40 to 14.70 V Temperature compensation 14.40 to 14.70 V Temperature 14.40	Operating		Discharge	-15℃~50℃(5°F~122°F)					
Float charging voltage(25°C) 13.50 to 13.80V Temperature compensation—18mV/°C 14.40 to 14.70V Temperature compensation—18mp voltage(25°C) Temperature compensation—19mp voltage(25°C)		е	Charge	-10℃~50℃(14°F~122°F)					
Float charging voltage(25°C) Temperature compensation of the state of	range		Storage	-20℃~50℃(-4°F~122°F)					
Cyclic charging voltage(25°C) Temperature compensation	Float chargir	ng v	oltage(25℃)	Temperature compensation					
	Cyclic chargi	ng v	voltage(25℃)	Temperature compensation:					
Maximum charging current 20A	Maximum cl	harg	ging current	20A					
Maximum discharge current 800A(5 sec.)	Maximum di	scha	arge current	800A(5 sec.)					
Designed floating life(20°C) 12years	Designed flo	atir	ng life(20℃)	12years					



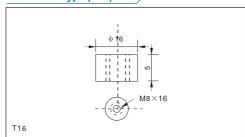
Specifications

Nomina	al Voltage	12V			
Rated capaci	ty (10 hour rate)	100Ah			
	Length	407±2mm (16. 02inch)			
Dimensions	Width	173±2mm (6. 81inch)			
Dimensions	Height	233±2mm(9.17inch)			
	Total Height	233±2mm(9.17inch)			
Approx	c. Weight	29kg(63.93lbs)±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)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	195	160	97.0	60.0	36.5	26.0	20.4	17.3	12.2	10.2	5.40
9.90V	189	156	95.1	59.1	36.3	25.9	20.3	17.2	12.2	10.2	5.38
10.2V	181	150	92.2	57.6	36.0	25.7	20.1	17.1	12.1	10.1	5.37
10.5V	174	145	89.9	55.8	35.5	25.5	20.0	17.0	12.0	10.1	5.34
10.8V	164	138	86.6	54.0	34.6	25.0	19.4	16.5	11.6	10.0	5.30

DConstant Power Discharge Characteristics Unit:W(25℃,77°F)

	F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
	9.60V	2106	1757	1088	684	423	306	240	205	145	122	64.7
	9.90V	2043	1715	1067	674	421	304	238	204	145	121	64.6
	10.2V	1959	1651	1034	657	417	302	237	202	144	121	64.4
	10.5V	1874	1595	1009	636	411	300	235	201	143	120	64.0
1	10.8V	1769	1511	972	616	400	294	228	195	138	119	63.6

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



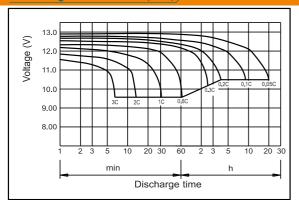
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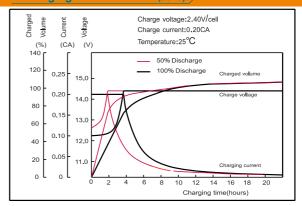
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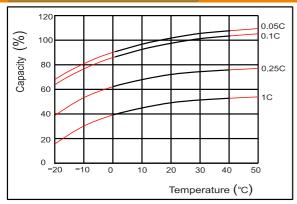




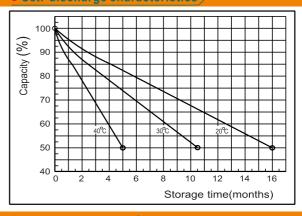
Charging characteristics (25°c)



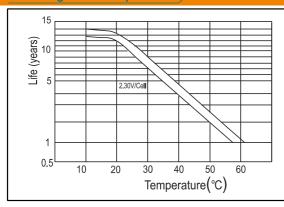
Temperature effects on Capacity

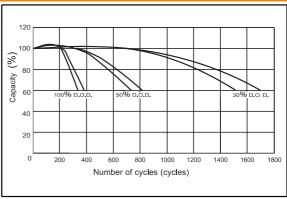


Self-discharge characteristics

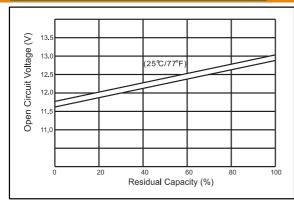


Floating life on Temperature





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



The relationship for Charging voltage and Temperature

