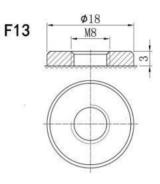


AGM DEEP CYCLE BATTERY

Model: BT-90-12 (12V90AH)



Application



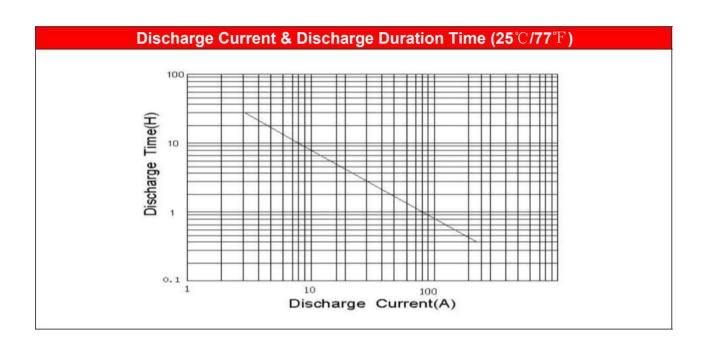
General Features

- \Rightarrow Thick plates and high-density active material
- \Rightarrow High power density
- $\stackrel{\scriptstyle \star}{\sim}$ Longer life in deep cycle applications
- \Rightarrow Excellent recovery from deep discharge

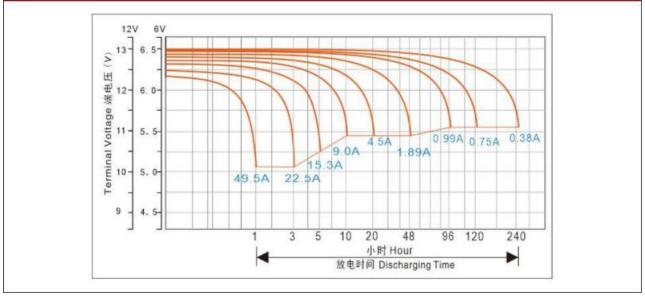
	PHYSICAL SPECIFICATIONS							
	Nominal Voltage	12V						
Non	ninal Capacity (10HR)	90AH						
	Length	331±3mm						
Dimensione	Width	173±2mm 216±2mm						
Dimensions	Container height							
	Total Height (with terminal)	222±2mm						
ч. ч.	Weight±3%	Approx 26.2Kg (57.64lbs)						
Internal Res	sistance(In full charge status)	≈4.46mΩ						
S	tandard Terminals	F13(standard)						

ELECTRICAL SPECIFICATIONS								
	10 hour rate(9A)	90AH						
	20 hour rate(4.5A)	92.5AH						
Rated Capacity	120 hour rate(0.75A)	98.8AH						
	240 hour rate(0.38A)	100AH						
Capacity affected by	40℃(104°F)	103%						
Temperature	25 ℃(77°F)	100%						
(10Hour Rate)	0°C(32°F)	86%						

Constant – Voltage Charge								
	1.	Limit initial current less than 22.5A.						
Cycle application	2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25 $^\circ\!\mathrm{C}$ (77F).						
	3.	Hold at 14.1V to 14.4V until current drop to under 0.54A for at least 3 hours.						
	4.	Temperature compensation coefficient of charging voltage is -30mV/ $^\circ C.$						
6	1.	Hold battery across constant voltage source of 13.6to 13.8 volts with current limit						
Standby service		22.5A 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/ $^{\circ}\mathrm{C}$						
NOTE : The battery should I	be ch	arged within 6 months of storage ,Otherwise , permanent loss of capacity might occur						
as a result of sulfation	on							







Constant Current Discharge Data Sheet (Amperes at 25℃)											
End Voltage 1	Hour (H)										
	1	2	4	8	10	20	48	96	120	240	
10.20	52.72	32.63	20.04	11.09	9.181	4.727	2.159	1.132	0.941	0.482	
10.50	50.00	30.73	19.13	11.00	9.135	4.681	2.150	1.123	0.932	0.477	
10.80	47.72	28.89	18.18	10.91	9.090	4.636	2.123	1.114	0.923	0.473	
11.10	44.22	27.04	17.23	10.64	8.954	4.590	2.091	1.109	0.909	0.468	
11.40	41.22	25.16	16.24	10.32	8.817	4.500	2.059	1.104	0.895	0.464	

	Constant Power Discharge Data Sheet (Watt at 25℃)										
End Voltage	Hour (H)										
	1	2	4	8	10	20	48	96	120	240	
10.20	548.0	339.2	208.3	115.3	95.42	49.13	22.44	11.76	9.779	5.007	
10.50	519.6	319.4	198.8	114.3	94.95	48.66	22.34	11.67	9.684	4.960	
10.80	496.0	300.3	189.0	113.4	94.48	48.18	22.06	11.57	9.590	4.913	
11.10	459.6	281.1	179.1	110.5	93.06	47.71	21.73	11.53	9.448	4.866	
11.40	428.5	261.5	168.8	107.2	91.65	46.77	21.40	11.48	9.306	4.818	

