AGM Deep Cycle Battery



Model: BT-40-12 (12V40AH)





- \Rightarrow UPS power supply
- ☆ Telecom Equipment
- $\stackrel{\scriptscriptstyle \ensuremath{\bigtriangleup}}{\sim}$ Power station
- $\stackrel{\wedge}{\Join}$ Solar/wind energy storage system



General Features

- $\stackrel{\scriptstyle <}{\scriptstyle \backsim}$ $\,$ Thick plates and high-density active material
- $\stackrel{}{\approx} \quad \text{High power density} \quad$
- $\stackrel{\wedge}{\rightarrowtail}$ Longer life in deep cycle applications
- $\stackrel{\scriptstyle \ensuremath{\scale}}{\rightarrow}$ Excellent recovery from deep discharge
- $\stackrel{\scriptstyle <}{\succ}$ Wide operating temperature range from -10 $^\circ\!\mathrm{C}$ -40 $^\circ\!\mathrm{C}$

PHYSICAL SPECIFICATIONS									
	12V								
Nom	40AH								
	Length	197±2mm							
Dimonsions	Width	166±2mm							
Dimensions	Container height	170±2mm							
	Total Height (with terminal)	170±2mm							
-	Approx 11.7Kg(25.79lbs)								
Internal Resi	≈8.5mΩ								
St	F9 (standard)								

Constant – Voltage Charge										
	1.	Limit initial current less than 10A.								
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 0.24A for at least 3 hours.								
	4.	Temperature compensation coefficient of charging voltage is -30mV/ $^{\circ}\mathrm{C}.$								
0	1.	Hold battery across constant voltage source of 13.6to 13.8 volts with current limit								
Standby service		10A continuously . When held at this voltage $% \left({{{\mathbf{x}}_{i}},{{\mathbf{y}}_{i}}} \right)$, the battery will seek its own current								
		level and maintain itself in a fully charge status.								
8	2.	Temperature compensation coefficient of charging voltage is -18mV/ $^{\circ}\!\mathrm{C}$								
NOTE : The battery should b	e cha	arged within 6 months of storage ,Otherwise , permanent loss of capacity might occur								
as a result of sulfation	n									







ELECTRICAL SPECIFICATIONS										
	20 hour rate(2.0A)	42.1AH								
Rated Capacity	10 hour rate(4.0A)	40.0AH								
	5 hour rate(6.8A)	34.0AH								
	3 hour rate(10A)	30.0AH								
	1 hour rate (22A)	22.0AH								
Capacity affected by	40℃(104°F)	103%								
Temperature	25℃(77 °F)	100%								
(10Hour Rate)	0℃(32°F)	86%								

Constant Current Discharge Data Sheet (Amperes at 25 $^\circ\!$													
End	Minute (M)					Hour (H)							
Voltage	5	10	15	30	45	1	1.5	2	3	5	8	10	20
10.20	123.4	93.81	70.67	37.55	34.77	24.43	19.29	16.16	10.12	7.04	5.00	4.15	2.21
10.50	109.0	85.99	66.14	36.00	33.23	23.45	18.54	15.56	9.79	6.72	4.73	4.10	2.17
10.80	101.6	78.18	61.82	34.77	31.68	22.48	17.78	14.97	9.45	6.43	4.50	3.98	2.11

Constant Power Discharge Data Sheet(Watt at 25℃)													
End	Minute (M)						Hour (H)						
Voltage	5	10	15	30	45	1	1.5	2	3	5	8	10	20
10.20	1223	1036	752	468	352	305.5	223.2	167.7	125.5	80.65	59.76	50.82	26.62
10.50	1177	879	675	458	344	301.4	219.1	162.5	121.4	78.18	59.04	49.27	25.80
10.80	1094	821	645	447	332	287.0	209.8	156.4	117.3	75.40	58.22	46.91	25.21





Charge Voltage VS Ambient Temperature Curve



