AGM Deep Cycle Battery

Model: BT-12M33AC(12V 33AH)



Application

- ☆ UPS power supply
- ☆ Telecom Equipment
- $\stackrel{\wedge}{\eqsim}$ Power station
- $\stackrel{\wedge}{\Join}$ Solar/wind energy storage system





General Features

- $\stackrel{\scriptscriptstyle \wedge}{\rightarrowtail}$ $\,$ Thick plates and high-density active material
- \Rightarrow High power density
- $\stackrel{\wedge}{\rightarrowtail}$ Longer life in deep cycle applications
- $\stackrel{\scriptscriptstyle \wedge}{\rightarrowtail}$ $\,$ Excellent recovery from deep discharge
- $\stackrel{\scriptscriptstyle \wedge}{\succ}$ Wide operating temperature range from -10 $^\circ\!\mathrm{C}$ -40 $^\circ\!\mathrm{C}$

PHYSICAL SPECIFICATIONS									
	12V								
Nomi	33AH								
	Length	194±2mm							
Dimensions	Width	129±2mm							
	Container height	156±2mm							
	Total Height (with terminal)	179±2mm							
	Approx 9.80Kg(21.60lbs)								
Internal Resis	≈7.6mΩ								
St	T20(standard)								

Constant – Voltage Charge									
Cycle application	1.	Limit initial current less than 8.25A.							
	2.	Charge until battery voltage (under charge) reaches 14.1V to 14.4V at $25^{\circ}C$ (77F).							
	3.	Hold at 14.1V to 14.4V until current drop to under 0.198A for at least 3 hours.							
	4.	Temperature compensation coefficient of charging voltage is -30mV/ $^\circ\!\!\mathbb{C}.$							
Standby service	1.	Hold battery across constant voltage source of 13.6to 13.8 volts with current limit							
		8.25A 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/ $^{\circ}\!\!\mathbb{C}$							
NOTE : The battery should b	be ch	arged within 6 months of storage ,Otherwise , permanent loss of capacity might occur							
as a result of sulfation	n								







ELECTRICAL SPECIFICATIONS									
Rated Capacity	20 hour rate(1.65A)	33.03AH							
	10 hour rate(3.3A)	32.50AH							
	5 hour rate(5.61A)	27.80AH							
	27minute rate(33A)	16.00AH							
	7 minute rate (99A)	11.60AH							
Capacity affected by	40℃(104°F)	103%							
Temperature	25℃(77 °F)	100%							
(20Hour Rate)	0°C(32°F)	86%							

Constant Current Discharge Data Sheet (Amperes at 25 $^\circ \!\!\! ^\circ \!\!\! ^\circ$)													
End	Minute (M)					Hour (H)						2	
Voltage	5	10	15	30	45	1	1.5	2	3	5	8	10	20
10.20	122.5	80.0	62.7	32.0	23.2	19.9	15.75	11.60	8.81	5.69	3.81	3.35	1.740
10.50	121.5	79.2	62.0	31.7	23.1	19.8	15.50	11.20	8.54	5.58	3.77	3.32	1.720
10.80	120.4	78.3	61.4	31.5	23.0	19.7	15.25	10.80	8.26	5.47	3.73	3.29	1.690

Constant Power Discharge Data Sheet (Watt at 25 $^\circ C$)													
End	Minute (M)					Hour (H)							
Voltage	5	10	15	30	45	1	1.5	2	3	5	8	10	20
10.20	1325	955	773	437	318	242	185.7	139.7	99.71	65.72	46.29	37.46	20.17
10.50	1269	923	750	428	311	238	183.0	137.7	97.45	64.97	45.91	36.90	19.88
10.80	1203	889	726	415	303	234	180.3	135.8	95.76	64.22	45.44	36.28	19.60









