Valve Regulated Lead-Acid Battery



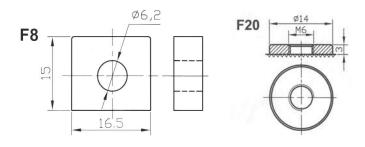






Model: BT-12M33AC(12V33AH)





Application

- Measuring equipment and instrument
- Telephone sets
- Lighting equipment $\stackrel{\wedge}{\sim}$
- Security systems

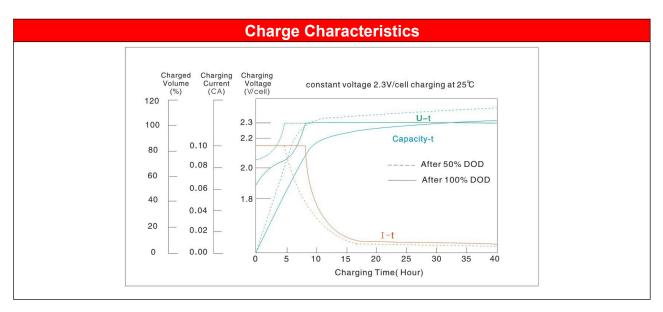
General Features

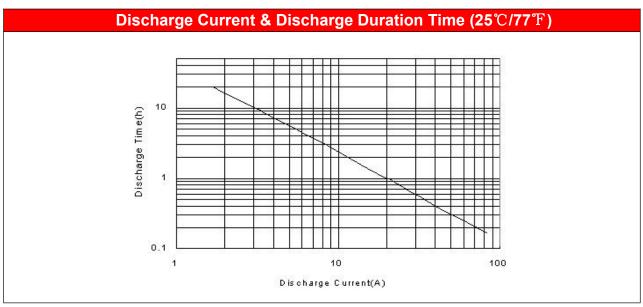
- Designed floating charging service life: 8 years (25°C)
- Sealed and maintenance free operation $\stackrel{\wedge}{\bowtie}$
- Safety valve installation for explosion proof
- ☆ Low self-discharge characteristic
- Wide operating temperature range from 0°C-40°C
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

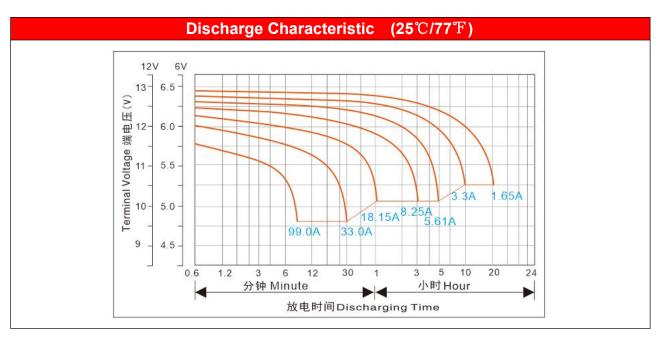
PHYSICAL SPECIFICATIONS								
	Nominal Voltage	12V						
No	minal Capacity (20HR)	33AH						
	Length	194±2mm						
Dimensions	Width	129±2mm						
Dimensions	Container height	156±2mm						
	Total Height (with terminal)	179±2mm						
	Weight±3%	Approx 9.80Kg(21.61lbs)						
Internal Re	sistance(In full charge status)	≈7.58mΩ						
	Standard Terminals	F8/F20(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 $^{\circ}\text{C}$ (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/℃.							
	1.	Hold battery across constant voltage source of 13.6to 13.8 volts with current limit							
Standby service		8.25A continuously .When held at this voltage , the battery will seek its own current							
Standby Service		level and maintain itself in a fully charge status.							
	2.	Temperature compensation coefficient of charging voltage is -18mV/°C							
NOTE: The battery should be	e ch	arged within 6 months of storage ,Otherwise , permanent loss of capacity might occur							

as a result of sulfation







ELECTRICAL SPECIFICATIONS									
	20 hour rate(1.65A)	33.03AH							
	10 hour rate(3.3A)	31.50AH							
Rated Capacity	5 hour rate(5.61A)	27.55AH							
	27minute rate(33A)	15.40AH							
	7 minute rate (99A)	11.55AH							
Capacity affected by	40℃(104°F)	103%							
Temperature	25℃(77 ℉)	100%							
(20Hour Rate)	0℃(32 ℉)	86%							

Constant Current Discharge Data Sheet (Amperes at 25℃)													
End		М	inute (l	M)		Hour (H)							
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℃)													
End		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

