FAT100-12

12-Volt,100AH@20HR

Valve Regulated Lead-Acid Battery

Designed for telecom applications

Life Expectancy:

Expected trickle life: 10 years at 20°C.

Application

Floating

Specifications

Nominal Voltage	12V(6 cells per unit)	
Rated Capacity	100AH @20HR-Rate to 1.75V per cell@25℃	
	95AH @10HR-Rate to 1.80V per cell@25℃	
	90AH @8HR-Rate to 1.75V per cell@25℃	
Weight	Approx.31kg (68.34lbs.)	
Max. Short-Duration Discharge Current	1000 A (5S)	
Internal Resistance of charged battery	Approx. 3.8mΩ	
Short Circuit Current	3440A	

Operating Temperature Range

Nominal Operating Temperature	+74°F (23°C) to +80°F (27°C)	
Discharge	-15℃ ~+ 50℃	5℉~122℉
Charge	-15℃ ~ +40℃	5℉~104℉
Storage	-15℃ ~ +40℃	5℉~104℉
Self Discharge Rate @ 25℃	<3% per month	
Capacity affected by Temperature (20 hour rate)	40℃(104℉)	102%
	25℃(77℉)	100%
	0℃(32℉)	85%
	-15℃(5℉)	65%

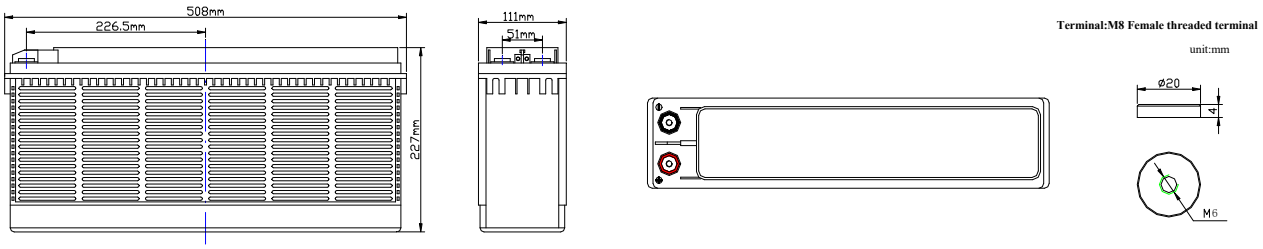
Mechanical Specifications

Overall Height (H)		227mm	8.97″
Container Height (h)		227mm	8.97″
Length		508mm	20″
Width		111mm	4.37″
Terminal		M8 Female threaded terminal	
Terminal Torque		60-80 in-lbs	
Container Material	**Standard**	ABS (UL 94-HB)	
	Optional	ABS Flame Retardant (UL94-VO)	
Plates		Flat Pasted	
Gelled/Absorbed		AGM	
Mounting Orientation		Vertical	

Charge Characteristics

Float Charging Voltage	13.5 to 13.8 VDC/unit @77°F (25°C)
Normal Charge (Amperes)	C/10 amperes @ 20 hour rate
Max. Charge (Amperes)	C/5 amperes @ 20 hour rate
Charging Temperature Compensation	-3mV/cell/℃
CAUTION ： Do not charge in a sealed container.	

DIMENSIONS (All units shown in mm)



Constant Power discharge (Watts per cell @ 25℃)

Cut off voltage V/cell	5M	10M	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	24H
1.67V	559	390	311	193	140	116	64.3	48.1	33.0	22.18	17.87	15.09	8.34
1.70V	536	383	306	189	139	115	64.0	47.8	32.8	21.88	17.87	15.03	8.30
1.75V	517	364	297	186	138	114	63.5	47.7	32.8	21.77	17.76	14.92	8.27
1.80V	472	348	288	180	134	111	63.4	47.3	32.4	21.70	17.56	14.76	8.22

Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.