FAT175-12

12-Volt,175AH@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	175AH @20HR-Rate to 1.75V per cell@25℃	
	166AH @10HR-Rate to 1.80V per cell@25℃	
	163AH @8HR-Rate to 1.75V per cell@25℃	
Weight	Approx.54kg (119.05lbs.)	
Max. Short-Duration Discharge Current	1200 A (5S)	
Internal Resistance of charged battery	Approx. 3.3mΩ	
Short Circuit Current	3750A	
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%

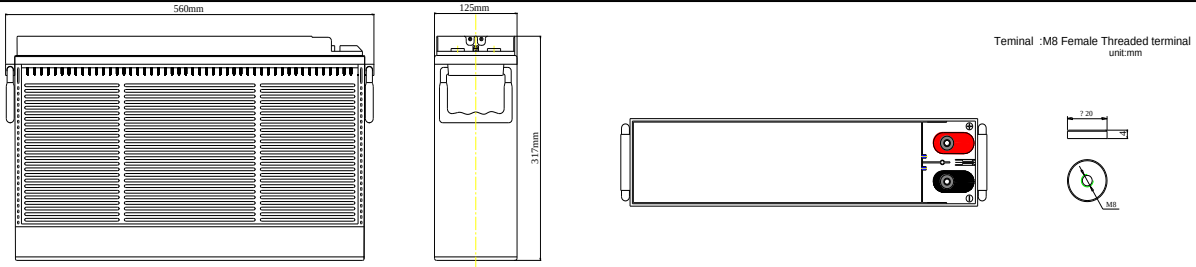
Mechanical Specifications

Overall Height (H)	317mm	12.48"
Container Height (h)	317mm	12.48"
Length	560mm	22.05"
Width	125mm	4.92"
Terminal	M8 Female threaded terminal	
Terminal Torque	60-80 in-lbs	
Container Material — **Standard**	ABS (UL 94-HB)	
Container Material — **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	973	682	543	338	246	202	112.8	84.2	57.9	38.73	31.25	26.41	14.56
1.70V	928	669	536	331	243	201	111.7	83.6	57.6	38.27	31.20	26.31	14.54
1.75V	897	638	518	325	241	199	111.2	83.6	57.3	37.82	31.01	26.12	14.49
1.80V	819	609	504	314	234	194	111.0	82.9	56.8	37.66	30.64	25.81	14.42

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