



FAT110-12

12-Volt, 110AH@20HR

Valve Regulated
Lead-Acid Battery

Designed for telecom
applications

Life Expectancy:

Expected trickle life: 10 years at 20°C.

Specifications

Nominal Voltage	12V(6 cells per unit)
Rated Capacity	110AH @20HR-Rate to 1.75V per cell@25°C
	103AH @10HR-Rate to 1.80V per cell@25°C
	99AH @8HR-Rate to 1.75V per cell@25°C
Weight	Approx.34.6kg (76.28bs.)
Max. Short-Duration Discharge Current	1100 A (5S)
Internal Resistance of charged battery	Approx. 3.7mΩ
Short Circuit Current	3350A

Operating Temperature Range

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

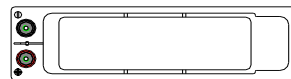
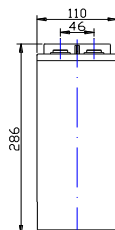
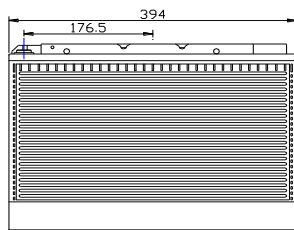
Application

Floating

Mechanical Specifications

Overall Height (H)	286mm	11.26"
Container Height (h)	286mm	11.26"
Length	394mm	15.51"
Width	110mm	4.33"
Terminal	M8 Female threaded terminal	
Terminal Torque	60-80 in-lbs	
Container	Standard	ABS (UL 94-HB)
	Optional	ABS Flame Retardant (UL94-VO)
Material		
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/°C	
CAUTION : Do not charge in a sealed container.		

DIMENSIONS (All units shown in mm)



Terminal: M8 Female threaded Terminal



Constant Power discharge (Watts per cell @ 25°C)

Cut off voltage V/cell	5M	10M	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	24H
1.67V	613	428	343	213	154	127	70.8	52.9	36.3	24.38	19.66	16.59	9.17
1.70V	588	423	337	208	153	126	70.3	52.6	36.2	24.05	19.60	16.52	9.14
1.75V	567	402	326	204	152	125	69.9	52.5	36.0	23.97	19.52	16.40	9.10
1.80V	517	383	317	198	147	122	69.6	52.0	35.7	23.80	19.33	16.23	9.06

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