

FAT160-12

12-Volt,160AH@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	160AH @20HR-Rate to 1.75V per cell@25℃	
	146AH @10HR-Rate to 1.80V per cell@25℃	
	144AH @8HR-Rate to 1.75V per cell@25℃	
Weight	Approx.47.5kg (104.72lbs.)	
Max. Short-Duration Discharge Current	1200 A (5S)	
Internal Resistance of charged battery	Approx. 3.3mΩ	
Short Circuit Current	4000A	

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%

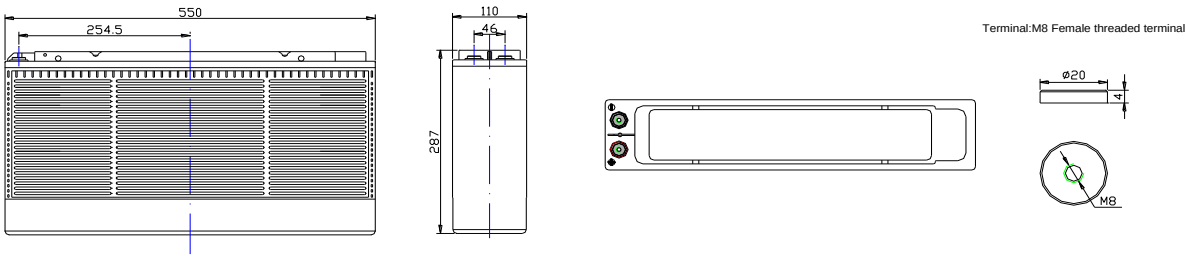
Mechanical Specifications

Overall Height (H)		287mm	11.30″
Container Height (h)		287mm	11.30″
Length		550mm	21.65″
Width		110mm	4.33″
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	889	621	494	309	224	185	102.9	77.0	52.9	35.34	28.57	24.18	13.35
1.70V	850	613	490	303	222	184	102.2	76.5	52.5	35.02	28.57	24.14	13.30
1.75V	819	585	474	297	221	182	102.1	76.4	52.5	34.74	28.37	23.97	13.23
1.80V	750	557	460	287	214	177	101.8	75.5	52.1	34.54	28.09	23.70	13.16

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

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs specification are subject to modification without notice. Contact Fullriver for the latest information.