

VRLA AGM Front Terminal Battery

ATPG-FT12-150AH

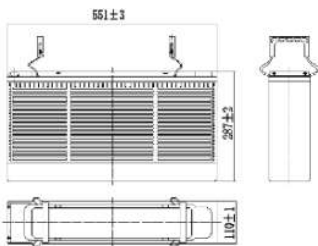


The Atlantic Power Front Terminal Series batteries, with their innovative design featuring a new AGM separator and a centralized venting system, provide numerous advantages when it comes to installation. Their front terminal design allows for easy and convenient installation, especially in confined spaces or rack-mounted configurations. This design also facilitates quick and hassle-free maintenance procedures. Furthermore, the versatility of these batteries ensures that they can be installed in various positions without sacrificing reliability. Additionally, customers have the option to choose gel technology variants, further enhancing the suitability of these batteries for a wide range of applications.

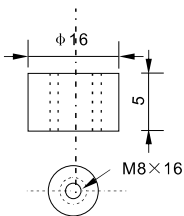
Specifications

Nominal Voltage	12V	
Rated capacity (20 hour rate)	150Ah	
Dimensions	Length	551 ±3mm(21.69inch)
	Width	110±1mm(4.33inch)
	Height	287±2mm(11.30inch)
	Total Height	287±2mm(11.30inch)
Approx. Weight	48kg(105.81bs)±3%	

Outer dimensions (mm)



Terminal Type (mm)



Characteristics

Capacity (25°C)	10HR(10.8V)	150Ah
	3HR(10.8V)	112.5Ah
	1HR(10.5V)	82.5Ah
Terminal type		T16
Internal resistance (Fully charged, 25°C)		Approx. 4m Ω
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 months	Remaining Capacity: 91%
	6 months	Remaining Capacity: 82%
	12 months	Remaining Capacity: 65%
Nominal operating temperature		25°C ±3°C(77°F ±5°F)
Operating temperature range	Discharge	-15°C-50°C(5°F-122°F)
	Charge	-10°C-50°C(14°F-122°F)
	Storage	-20°C-50°C(-4°F-122°F)
Float charging voltage(25°C)	13.50 to 13.80V	Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)	14.50 to 15.00V	Temperature compensation: -30mV/°C
Maximum charging current	45A	
Maximum discharge current	1050A(5 sec.)	
Designed floating life(20°C)	12years	

Construction

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

Constant Current Discharge Characteristics Unit:A(25°C,77°F)

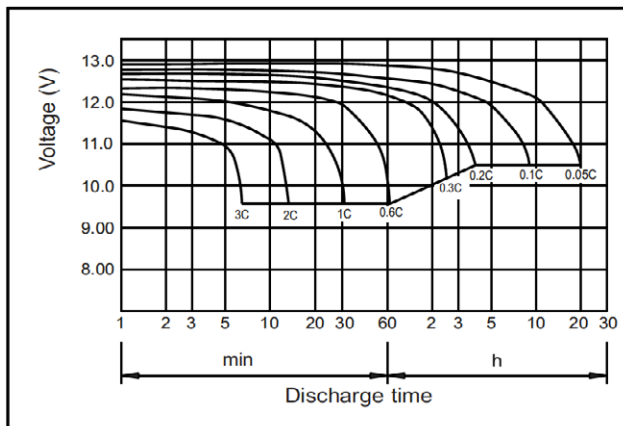
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	Bh	10h	20h
9.60V	247	148	90.8	54.8	39.5	31.5	26.9	23.4	18.5	15.3	8.09
9.90V	241	145	89.5	54.5	39.2	31.3	26.8	23.3	18.4	15.2	8.08
10.2V	232	140	87.2	54.0	39.0	31.1	26.6	23.1	18.3	15.2	8.05
10.5V	224	137	84.5	53.2	38.7	30.9	26.4	23.0	18.2	15.1	8.01
10.8V	212	132	81.8	51.8	37.5	30.0	25.6	22.3	17.6	15.0	7.95

Constant Power Discharge Characteristics Unit:W(25°C,77°F)

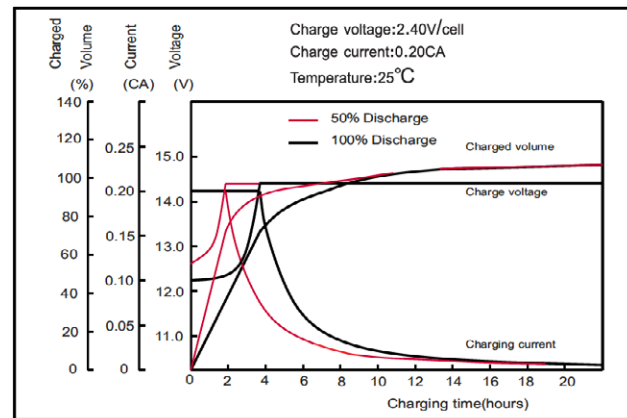
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	Bh	10h	20h
9.60V	2712	1658	1036	635	464	371	318	277	220	182	97.1
9.90V	2647	1624	1020	631	461	368	316	275	219	182	96.9
10.2V	2549	1575	994	625	458	366	314	273	217	181	96.6
10.5V	2462	1537	963	616	455	363	312	271	216	180	96.1
10.8V	2332	1480	932	600	441	352	303	263	209	179	95.4

Note: The above characteristics data can be obtained within three charge or discharge cycles.

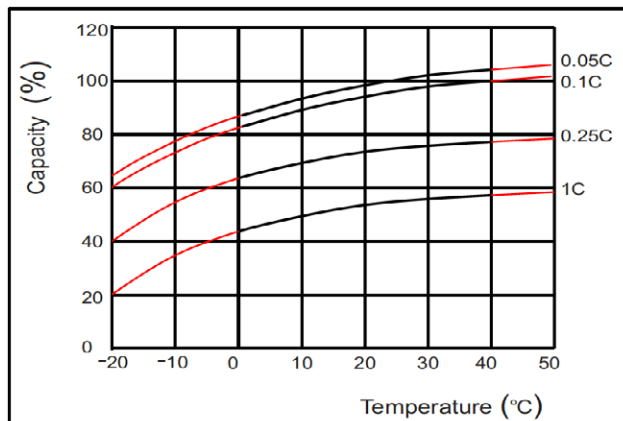
Discharge characteristics(25°C)



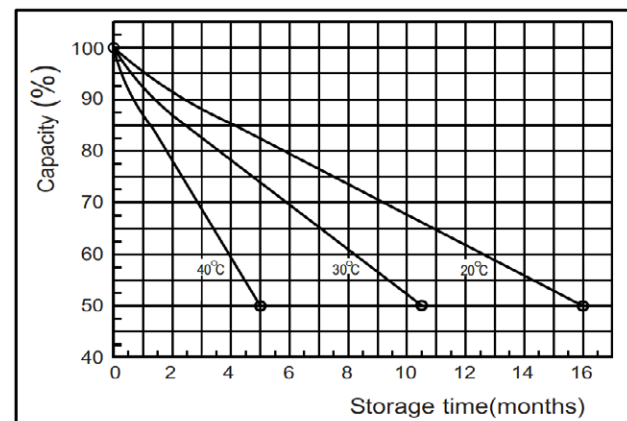
Charging characteristics



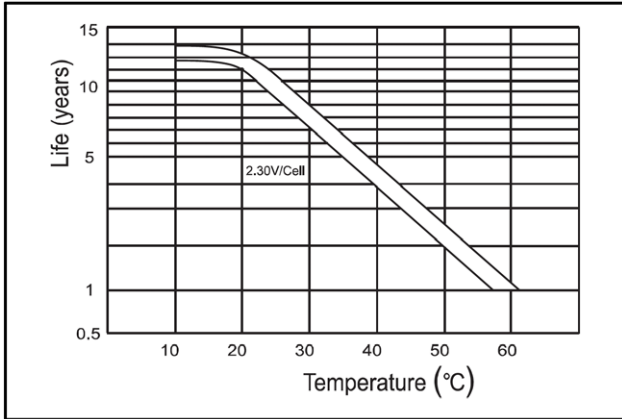
Effect of Temperature on Capacity



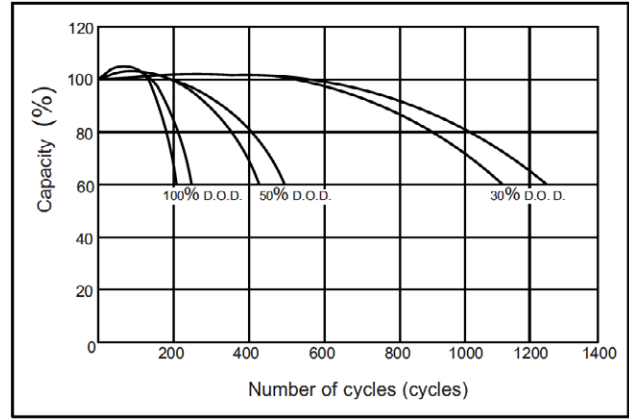
Self-discharge characteristics



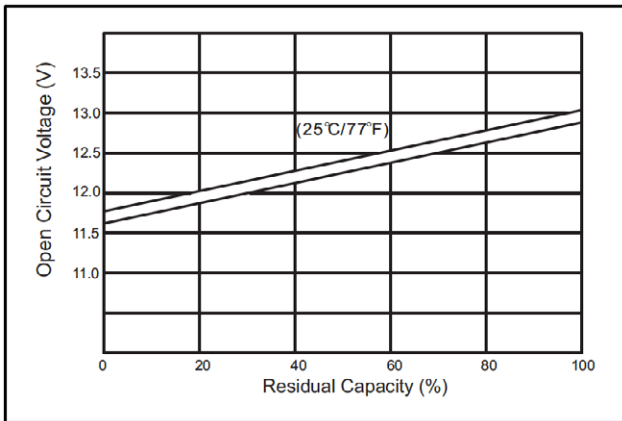
Temperature effects on float life



Cycle service life in relation to depth of discharge



The relationship for OCV and Capacity (25't)



The relationship for Charging voltage and Temperature

