# VRLA AGM Front Terminal Battery ATPG-FT12-100AH



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**

#### **Characteristics**

Nominal Voltage	12V			
Rated capacity (20 hour	100Ah			
Dimensions	Length	395±2mm(15.55inch)		
	Width	110±2mm(4.33inch)		
	Height	286±2mm(11.26inch)		
	Total Height	286±2mm(11.26inch)		
Approx. Weight	32.8kg(72.31bs)±3%			

#### **Outer dimensions (mm)**



## Terminal Type (mm)



	10HR(	100Ah				
Capacity (25°C)	3HR(	75Ah				
	1HR(1	0.5V)	55Ah			
	Terminal type		T14			
Interna! re	sistance (Fully char	ged,25°C)	Approx.5.5m $\Omega$			
	40°C	102	2%			
affected by	25°C	100%				
temperature (10HP)	0°C	85	5%			
(ioring)	-15°C	65	5%			
	3 months	Remaining Capacity:91 %				
Self-discharge (25°C)	6 months	Remaining Capacity:82%				
(== =)	12 months	Remaining Capacity:65%				
Nominal operati	ing temperature	25°C ±3°C(77°F ±5°F)				
Operating	Discharge	-15°C-50°C(5°F-122°F)				
temperature	Charge	-10°C-50°C(14°F-122°F)				
range	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	g voltage(25°C)	14.50 to 15.00V Temperature compensation: -30mV/°C				
Maximum cha	arging current	30A				
Maximum disc	charge current	800A(5 sec.)				
Designed floa	ting life(20°C)	12years				

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### 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	10min	15min	30min	60min	2h	3h	4h	5h	Bh	10h	20h
9.60V	214	165	98.5	60.6	36.5	26.3	21.0	18.0	12.3	10.2	5.40
9.90V	207	161	96.5	59.7	36.3	26.2	20.9	17.8	12.3	10.2	5.38
10.2V	199	155	93.6	58.1	36.0	26.0	20.7	17.7	12.2	10.1	5.37
10.5V	190	149	91.3	56.3	35.5	25.8	20.6	17.6	12.1	10.1	5.34
10.8V	179	142	88.0	54.5	34.6	25.0	20.0	17.1	11.7	10.0	5.30

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

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	Bh	10h	20h
9.60V	2307	1808	1105	690	423	309	247	212	147	122	64.7
9.90V	2238	1764	1083	680	421	308	246	211	146	121	64.6
10.2V	2146	1699	1050	663	417	306	244	209	145	121	64.4
10.5V	2054	1641	1024	642	411	303	242	208	144	120	64.0
10.8V	1938	1555	987	621	400	294	235	202	139	119	63.6

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

## Discharge characteristics(25°C)



## Effect of Temperature on Capacity



#### **Charging characteristics**



#### **Self-discharge characteristics**





# Temperature effects on float life



# Cycle service life in relation to depth of discharge













