VRLA AGM battery ATP 12-100AH



ATP series is a general Purpose battery. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the ATP series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for telecommunications back-up power and EPS/UPS applications.

Specifications

Nominal Voltage	12V				
Rated capacity (20 hour	100Ah				
Dimensions	Length	306±2mm(12.05inch)			
	Width	169±2mm(6.65inch)			
	Height	211±2mm(8.31inch)			
	Total Height	215±2mm(8.46inch)			
Approx. Weight	29kg(63.8lbs)±3%				

Outer dimensions (mm)



Terminal Type (mm)



Characteristics

	10HR(100Ah				
Capacity (25°C)	3HR(1	75Ah				
	1HR(1	0.5V)	55Ah			
	Terminal type		T14			
Interna! re	sistance (Fully char	ged,25°C)	Approx.4.5m Ω			
	40°C	102	2%			
Capacity affected by	25°C	100	0%			
temperature	0°C	85	5%			
(IOHR)	-15°C	65	5%			
	3 months	Remaining Capacity:91 %				
Self-discharge	6 months	Remaining Capacity:82%				
(23.0)	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	harge current	800A(5 sec.)				
Designed floa	ting life(20°C)	10 years				

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VALVE REQUIATED LEAD ACID BATTERY ATP 12-100Ah 12V100Ah



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	8h	10h	20h
9.60V	218	168	101	61.8	36.5	26.3	21.0	18.0	12.3	10.2	5.40
9.90V	211	164	98.5	60.9	36.3	26.2	20.9	17.8	12.3	10.2	5.38
10.2V	203	158	95.5	59.3	36.0	26.0	20.7	17.7	12.2	10.1	5.37
10.5V	194	153	93.2	57.5	35.5	25.8	20.6	17.6	12.1	10.1	5.34
10.8V	183	144	89.7	55.6	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	8h	10h	20h
9.60V	2354	1845	1128	705	423	309	247	212	147	122	64.7
9.90V	2284	1800	1105	694	421	308	246	211	146	121	64.6
10.2V	2190	1734	1071	676	417	306	244	209	145	121	64.4
10.5V	2095	1675	1045	655	411	303	242	208	144	120	64.0
10.8V	1978	1586	1007	634	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









Cycle service life in relation to depth of discharge













