VRLA AGM battery ATP 12-110AH



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	110Ah				
	Length	330±2mm(12.99inch)			
Diamata	Width	171±2mm(6.73inch)			
Dimensions	Height	214±2mm(8.43inch)			
	Total Height	220±2mm(8.66inch)			
Approx. Weight	30.5kg(67.24lbs)±3%				

Outer dimensions (mm)



Terminal Type (mm)



Characteristics

	10HR(110Ah				
Capacity (25°C)	3HR(*	82.5Ah				
	1HR(1	0.5V)	60.5Ah			
	Terminal type		T16A			
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%			
(IOFIK)	-15°C	65	5%			
	3 months	Remaining Capacity:91 %				
Self-discharge	6 months	Remaining Capacity:82%				
(20 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	y voltage(25°C)	14.50 to 15.00V Temperature compensation: -30mV/°C				
Maximum cha	arging current	33A				
Maximum disc	harge current	800A(5 sec.)				
Designed floa	ting life(20°C)	10 years				

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VALVE REGULATED LEAD-ACID BATTERI ATP 12-110Ah 12V110Ah



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	231	178	107	65.5	38.7	27.9	22.2	19.1	13.0	10.8	5.72
9.90V	224	174	104	64.1	38.5	27.8	22.2	18.9	13.0	10.8	5.70
10.2V	215	167	101	62.9	38.2	27.6	21.9	18.8	12.9	10.7	5.69
10.5V	206	162	98.8	61.0	37.6	27.3	21.8	18.7	12.8	10.7	5.66
10.8V	194	153	95.1	58.9	36.7	26.5	21.2	18.1	12.4	10.6	5.62

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

F.V/Time	10min	15min	30min	60min	2h	Зh	4h	5h	8h	10h	20h
9.60V	2495	1956	1128	747	448	328	262	225	156	123	68.6
9.90V	2421	1801	1196	736	446	326	261	224	155	128	68.5
10.2V	2321	1838	1135	717	442	324	259	222	154	128	68.3
10.5V	2221	1776	1108	694	436	321	257	220	153	127	67.8
10.8V	2097	1681	1067	672	424	312	249	214	147	126	67.4

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

