VRLA AGM battery ATP 12-9AH

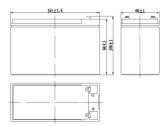


ATP series is a general Purpose battery. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the ATP series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which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

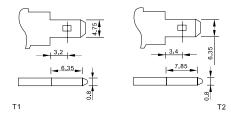
Specifications

Nominal Voltage	12V							
Rated capacity (20 hour	9Ah							
Dimensions	Length	151 ± 1.5mm(5.94inch)						
	Width	65± 1mm(2.56inch)						
	Height	94± 1mm(3.70inch)						
	Total Height	100±1mm(3.94inch)						
Approx. Weight	2.65kg(5.84lbs)±4%							

Outer dimensions (mm)



Terminal Type (mm)



Characteristics

	10HR(9Ah				
Capacity (25°C)	3HR(1	8.4Ah				
	1HR(1	0.5V)	5.4Ah			
	Terminal type		T1/T2			
Interna! re	sistance (Fully char	ged,25°C)	Approx.19m Ω			
	40°C	102%				
Capacity affected by	25°C	100	0%			
temperature (10HR)	0°C	85	5%			
	-15°C	65	5%			
	3 months	Remaining Capacity:91 %				
Self-discharge (25°C)	6 months	Remaining Capacity:82%				
(20 0)	12 months	Remaining Capacity:65%				
Nominal operati	ng 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	rging current	2.7A				
Maximum disc	harge current	135A(5 sec.)				
Designed floa	ting life(20°C)	5 ye	ears			

VALVE REGULATED LEAD-ACID BATTERY

ATP12-9Ah 12V9Ah

AVOID SHORT CIRCUIT AVOID SHORT CIRCUIT AND TCHARGE IN A SEALED CO



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)

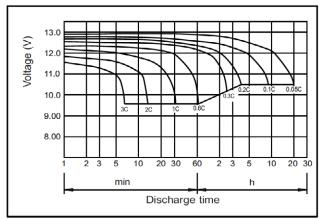
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	34.4	21.8	17.0	9.59	5.90	3.22	2.23	1.85	1.57	0.85	0.46
9.90V	33.3	21.1	16.6	9.39	5.81	3.21	2.22	1.83	1.56	0.85	0.45
10.2V	32.0	20.3	16.0	9.11	5.66	3.18	2.20	1.82	1.55	0.84	0.45
10.5V	30.6	19.4	15.4	8.89	5.55	3.13	2.19	1.81	1.54	0.84	0.45
10.8V	28.9	18.3	14.6	8.56	5.38	3.05	2.12	1.75	1.49	0.82	0.44

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

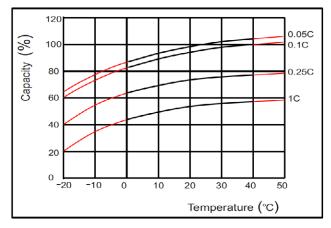
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	384	246	194	110	68.3	37.7	26.5	22.0	18.7	10.2	5.48
9.90V	372	238	189	108	67.2	37.5	26.3	21.8	18.6	10.2	5.46
10.2V	357	228	182	104	65.5	37.2	26.2	21.7	18.5	10.1	5.43
10.5V	341	219	176	102	64.2	36.6	26.0	21.5	18.4	10.1	5.40
10.8V	322	206	167	98.1	62.3	35.7	25.2	20.9	17.8	9.87	5.29

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

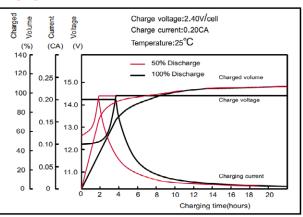
Discharge characteristics(25°C)



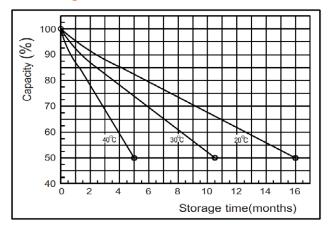
Effect of Temperature on Capacity



Charging characteristics

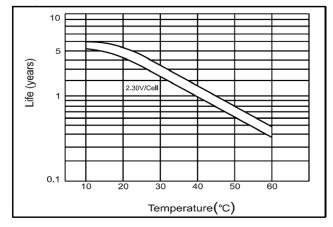


Self-discharge characteristics

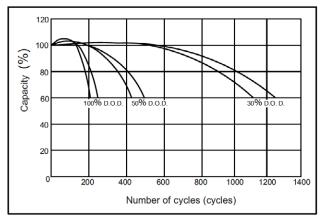




Temperature effects on float life



Cycle service life in relation to depth of discharge



The relationship for OCV and Capacity (25't)

