VRLA AGM battery ATP 12-80AH



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	80Ah				
	Length	260±2mm(10.24inch)			
Dimensione	Width	168±2mm(6.61inch)			
Dimensions	Height	211 ±2mm(8.31inch)			
	Total Height	215±2mm(8.46inch)			
Approx. Weight	24.2kg(53.3lbs)± 3%				

Outer dimensions (mm)



Terminal Type (mm)



Characteristics

	10HR(80Ah				
Capacity (25°C)	3HR(60Ah				
	1HR(1	44Ah				
	Terminal type		T14			
Interna! re	sistance (Fully char	ged,25°C)	Approx.5.5m Ω			
	40°C	102%				
Capacity affected by	25°C	100	0%			
temperature (10HP)	0°C	85	5%			
(iorik)	-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	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	24A				
Maximum disc	harge current	700A(5 sec.)				
Designed floa	ting life(20°C)	10 years				

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VALVE REGULATED LEAD-ACID BATTENT ATP 12-80Ah 12V80Ah



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	Sh	Bh	10h	20h
9.60V	174	134	80.4	49.4	29.2	21.1	16.8	14.4	9.87	8.14	4.32
9.90V	169	131	78.8	48.7	29.1	20.9	16.7	14.3	9.82	8.13	4.31
10.2V	162	126	76.4	47.5	28.8	20.8	16.6	14.2	9.75	8.10	4.30
10.5V	155	122	74.5	46.0	28.4	20.6	16.5	14.1	9.68	8.06	4.27
10.8V	146	116	71.8	44.5	27.6	20.0	16.0	13.7	9.39	8.00	4.24

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

F.V/Time	10min	15min	30min	60min	2h	3h	4h	Sh	Bh	10h	20h
9.60V	1884	1476	902	564	339	248	198	170	117	97.2	51.8
9.90V	1827	1440	884	555	337	246	197	169	117	97.0	51.7
10.2V	1752	1387	857	541	334	244	195	168	116	96.8	51.5
10.5V	1676	1340	836	524	329	243	194	166	115	96.2	51.2
10.8V	1582	1269	806	507	320	235	188	161	112	95.5	50.9

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













