

VRLA AGM Battery

AP12-65 [12V65Ah]



General Features

- Designed floating charging service life: 12 years (25°C)
- Sealed and maintenance free operation
- Safety valve installation for explosion proof
- Low self-discharge characteristic
- Wide operating temperature range from 0°C~40°C
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

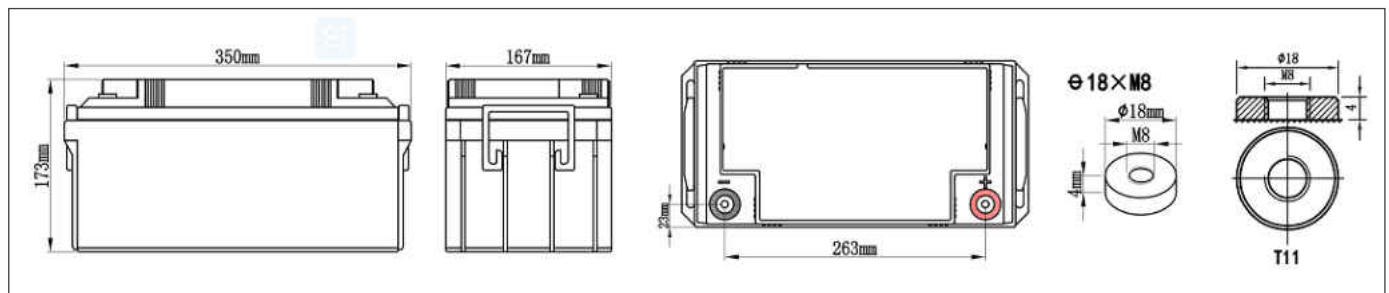
Application

- DC power supply
- UPS/EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power stations
- Medical equipments
- Emergency lighting systems

Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	65AH	350±3mm	167±2mm	173±3mm	173±3mm	Approx 21.0kg (46.29bs)	≈5.5 mΩ	T11 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (3.25A)	67.5AH
10 hour rate (6.50A)	65.0AH
5 hour rate (11.05A)	55.3AH
3 hour rate (16.25A)	49.0AH
1 hour rate (39.0A)	39.0AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

Cycle Application
1. Limit initial current less than 16.25A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).
3. Hold at 14.1V to 14.4V until current drop to under 0.42A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 16.25A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.
2. Temperature compensation coefficient of charging voltage is -18mV/°C.

NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation



Battery Discharge Table

End Voltage (V)	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25°C)													
10.20	221	168	127	67.1	62.3	43.8	34.5	28.94	18.13	12.59	8.96	7.42	3.96
10.50	196	154	118	64.4	59.5	42.0	33.2	27.88	17.55	12.03	8.47	7.28	3.89
10.80	182	140	111	62.3	56.7	40.3	31.8	26.79	16.93	11.50	8.05	7.07	3.77
Constant Power Discharge Data Sheet (Watt at 25°C)													
10.20	2191	1855	1347	839	630	547	399	300	224	144	107	91.0	47.7
10.50	2107	1575	1209	819	616	539	393	291	217	140	106	88.2	46.2
10.80	1960	1470	1154	802	595	515	375	281	209	135	104	84.0	45.2

Performance Characteristics

