

VRLA AGM Battery

ESR26-12 [12V26Ah]



General Features

- Designed floating charging service life: 8 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

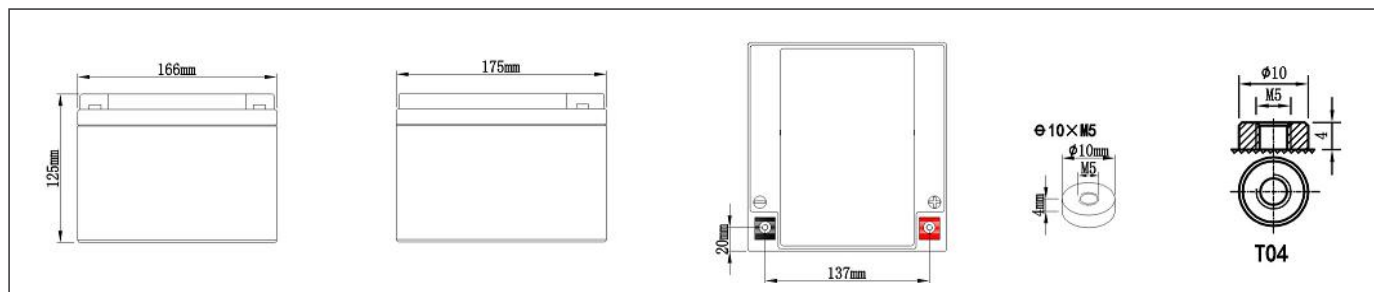
Application

- DC power supply
- Medical equipments
- UPS/EPS power supply
- Emergency lighting systems
- Alarm and security systems

Physical Specifications

Nominal Voltage	Nominal Capacity (20HR)	Dimension				Weight ±3%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	26AH	166±2mm	175±2mm	125±2mm	125±2mm	Approx 7.40kg (16.31lbs)	≈14m Ω	T04 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (1.30A)	26.00AH
10 hour rate (2.60A)	24.30AH
5 hour rate (4.42A)	21.60AH
27 minute rate (26A)	11.70AH
7 minute rate (78A)	9.10AH
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 6.5A.
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 0.16A 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 6.5A 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.

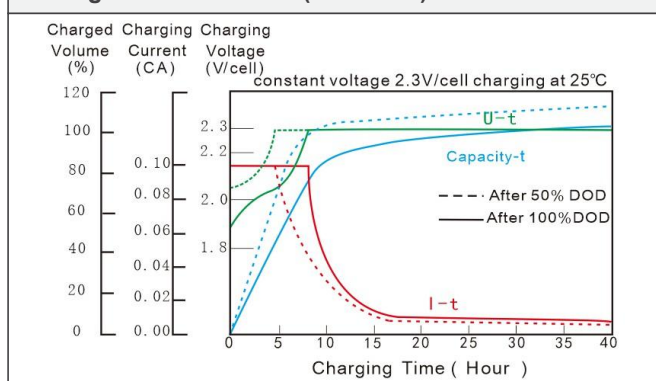
NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

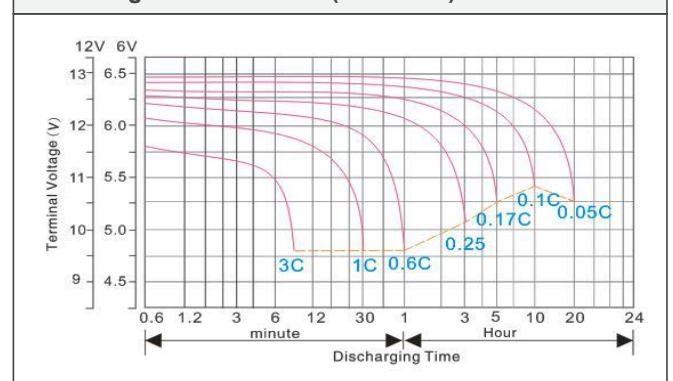
End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	67.9	53.2	27.2	19.2	16.1	12.8	9.55	7.20	4.61	3.06	2.54	1.35
9.9V	64.7	50.7	25.9	18.5	15.7	12.5	9.31	7.03	4.50	3.00	2.51	1.33
10.2V	61.6	48.2	24.7	17.9	15.3	12.2	9.09	6.86	4.39	2.94	2.49	1.32
10.5V	61.1	47.8	24.5	17.7	15.2	12.0	8.74	6.64	4.32	2.91	2.47	1.30
10.8V	60.4	47.3	24.2	17.4	15.1	11.8	8.40	6.41	4.23	2.88	2.43	1.28
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	790	641	362	256	191	146	111	78.7	51.9	36.2	28.7	15.4
9.9V	753	610	344	247	187	143	108	76.8	50.6	35.4	28.4	15.3
10.2V	717	581	328	239	182	139	105	74.9	49.4	34.7	28.1	15.1
10.5V	694	564	321	234	179	137	104	73.2	48.8	34.5	27.7	14.9
10.8V	667	545	312	228	176	135	102	71.9	48.2	34.1	27.2	14.7

Performance Characteristics

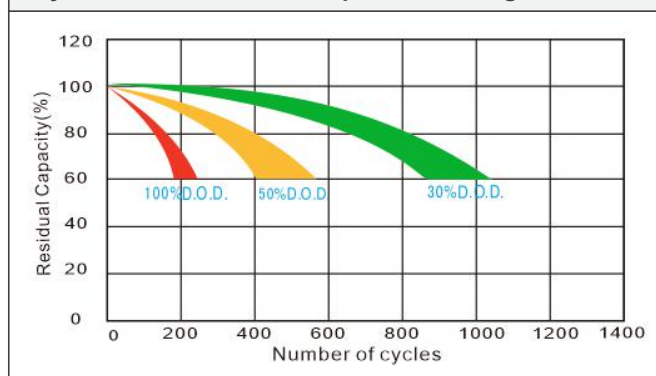
Charge Characteristics (25°C/77°F)



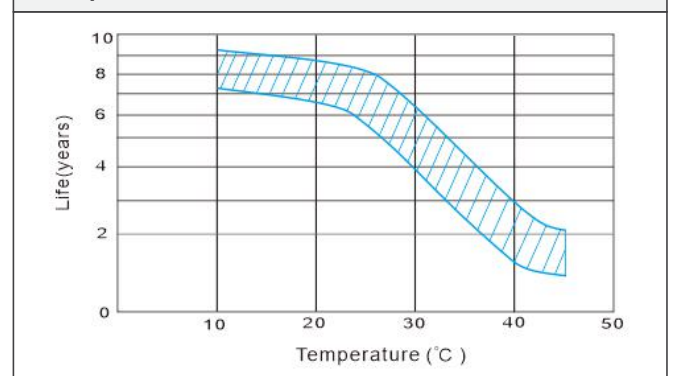
Discharge Characteristic (25°C/77°F)



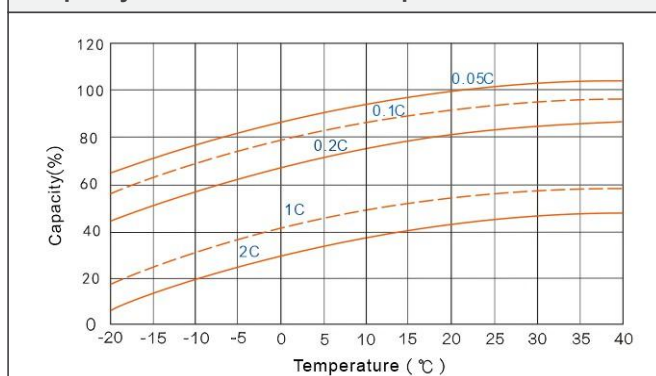
Cycle Life in Relation to Depth of Discharge



Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics

