

DC Series

Deep Cycle series batteries are designed to have a large amount of stored current discharged between charging sessions, with very heavy non-porous battery plates to withstand repeated major discharging and charging cycle(deep cycle). The Deep-cycle batteries uses a different chemistry for the plates active paste material, and a slightly stronger electrolyte than normal battery electrolyte, which allows for a much longer life in deep cycle applications.

DC121200

(12V120Ah/10hr)

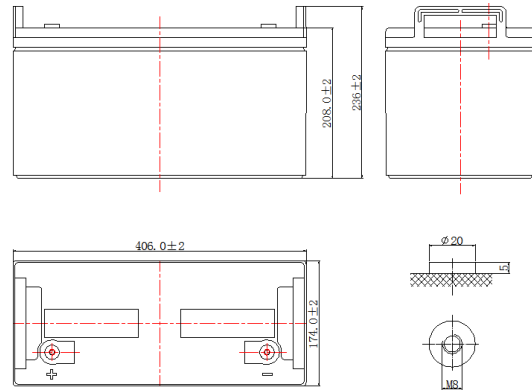


Application

- E-Bike
- Alarm System
- Cable Television
- Power tools
- Emergency Power System
- Security System
- Golf Cars
- Medical Equipment
- Solar and Wind Power System
- Communication Equipment
- Control Equipment
- Toys

General Features

- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers optional.
- Safety valve installation for explosion proof .
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.



CONSTRUCTION

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

TECHNOLOGY PARAMETER

Battery model	DC121200			
Designed Cycle Life	>350 Cycles @ -0.5CA to 9.6V			
Capacity (25 °C)	20hR(6.1A, 10.8V)	10hR(12A, 10.8V)	5hR(19.6A, 10.5V)	1hR(77.3A, 9.60V)
	122Ah	120Ah	98Ah	77.3Ah
Dimensions	Length	Width	Height	Total Height
	406 ±2mm	174 ±2mm	208 ±2mm	236 ±2mm
Approx. weight (±5%)	35Kg			
Internal resistance	Full charged at 25 °C: Approx. 6mOhms			
Self discharge	3% of capacity declined per month at 25 °C (average)			
Capacity Affected by Temp.(20HR)	40 °C	25 °C	0 °C	-15 °C
	102%	100%	85%	65%
Charge Voltage (25 °C)	Cycle use		Float use	
	14.4-14.7V(-30mV/°C), max. Current:30.0A		13.5-13.8V(-20mV/°C)	

DC121200- (12V120Ah/10hr)

Constant current discharge ratings-amperes at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	373	282	215	129	77.3	33.3	21.3	12.4	6.29
1.65V	354	269	204	127	74.5	32.2	20.7	12.2	6.25
1.70V	333	254	194	124	71.6	31.2	20.2	12.1	6.20
1.75V	312	239	183	122	68.8	29.8	19.6	12.0	6.15
1.80V	291	226	173	120	65.9	28.5	19.0	12.0	6.10

Constant power discharge ratings-watts at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	668	507	388	235	141	61.3	39.5	23.0	11.8
1.65V	631	482	367	230	136	59.0	38.2	22.6	11.6
1.70V	590	452	347	224	130	56.7	36.9	22.3	11.5
1.75V	550	423	326	219	124	54.0	35.6	22.0	11.3
1.80V	510	399	306	213	118	51.3	34.3	21.8	11.2

