

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 use 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.

DC12750

(12V75Ah/10hr)

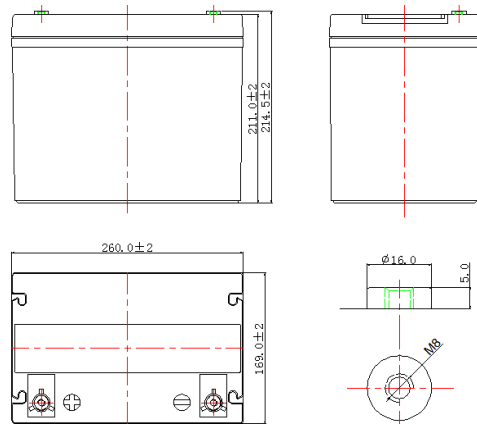


Application

- 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	DC12750			
Designed Cycle Life	> 350 Cycles @ -0.5CA to 9.6V			
Capacity (25 °C)	20hR(3.98A, 10.8V)	10hR(7.5A, 10.8V)	5hR(12.35A, 10.5V)	1hR(46.96A, 9.60V)
	79.6Ah	75Ah	61.73Ah	46.96Ah
Dimensions	Length	Width	Height	Total Height
	260 ±2mm	168 ±2mm	211 ±2mm	214.5 ±2mm
Approx. weight (±5%)	22Kg			
Internal resistance	Full charged at 25 °C: Approx. 6.5mOhms			
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:22.5A		13.5-13.8V(-20mV/°C)	

DC12750-(12V75Ah/10hr)

Constant current discharge ratings-amperes at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	277	194	147	85.5	51.4	22.0	14.4	7.73	3.97
1.65V	263	185	140	82.1	50.5	21.3	14.0	7.67	3.94
1.70V	247	175	133	78.5	49.2	20.6	13.6	7.59	3.91
1.75V	232	164	126	74.6	47.1	19.7	13.2	7.54	3.88
1.80V	216	156	119	70.9	44.9	18.8	12.8	7.50	3.85
1.85V	277	194	147	85.5	51.4	22.0	14.4	7.73	3.97

Constant power discharge ratings-watts at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	498	351	268	156	94.7	40.7	26.7	14.5	7.46
1.65V	470	333	254	149	92.4	39.1	25.8	14.3	7.37
1.70V	440	313	239	142	89.6	37.6	25.0	14.0	7.28
1.75V	410	292	225	134	85.3	35.8	24.1	13.8	7.18
1.80V	380	275	211	127	80.8	34.0	23.2	13.5	7.09
1.85V	498	351	268	156	94.7	40.7	26.7	14.5	7.46

