

Valve Regulated Lead Acid batteries

Deep Cycle SLA battery (DC Series)

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.

Medical Equipment

Control Equipment

• Solar and Wind Power System

Communication Equipment

Application

- •Alarm System
- Cable Television
- Power tools
- •Emergency Power System
- **General Features**
- •Sealed and maintenance free operation.
- •Non-Spillable construction design.
- •ABS containers and covers (UL94HB, UL94V-0) 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

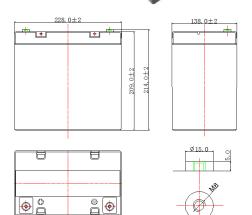
TECHNOLOGY PARAMETER

Battery model		DC12550						
Designed Cycle Life	>350 Cycles @ -0.5CA to 9.6V							
Capacity	20hR(2.79A, 10.8V)	0hR(2.79A, 10.8V) 10hR(5.5A, 10.8V) 5hF		1hR(33.8A, 9.60V)				
(25℃)	55.8Ah	55Ah	44.45Ah	33.8Ah				
D	Length	Width	Height	Total Height				
Dimensions	228±2mm	138±2mm	209±2mm	214 ±2mm				
Approx. weight (±5%)		16.5Kg						
Internal resistance		Full charged at 25°C	ged at 25°C: Approx. 8mOhms					
Self discharge		3% of capacity declined p	er month at 25 °C (average)					
Capacity Affected	40 °C	25 °C	0 °C	-15 °C				
by Temp.(20HR)	102%	100%	85%	65%				
Charge Voltage (25°C)	Cycle	e use	Float use					
Charge Voltage (25℃)	14.4-14.7V(-30mV/°C)	, max. Current: 13.75A	13.6-13.8V(-20mV/°C)					



DC12550

(12V55Ah/10hr)







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DC12550- (12V55Ah/10hr)

Constant current discharge ratings-amperes at 25°C

End Point									
Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	174	132	100	58.7	33.8	14.8	9.69	5.67	2.91
1.65V	165	126	95.3	57.6	32.5	14.4	9.42	5.63	2.88
1.70V	156	119	90.4	56.6	31.3	13.9	9.15	5.56	2.86
1.75V	146	112	85.5	55.5	30.0	13.3	8.89	5.50	2.82
1.80V	136	106	80.6	54.4	28.8	12.7	8.62	5.50	2.79

Constant power discharge ratings-watts at 25 $^\circ\!\mathrm{C}$

End Point									
Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	314	238	182	107	62.1	27.5	18.0	10.6	5.47
1.65V	296	226	173	105	59.5	26.4	17.4	10.5	5.39
1.70V	277	212	163	102	56.9	25.4	16.8	10.3	5.32
1.75V	258	199	153	100	54.4	24.2	16.3	10.1	5.22
1.80V	240	187	144	97.3	51.8	23.0	15.7	10.0	5.14

