

# **Valve Regulated Lead Acid batteries**

Deep Cycle SLA battery (DC Series)

#### **DC** Series

Deep Cycle series batteriesare 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.

### **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.
- $\bullet$  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

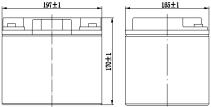
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Cupper	Fiberglass	Sulfuric acid

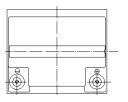
#### TECHNOLOGY PARAMETER

Battery model		2400						
Designed Cycle Life	>350 Cycles @ -0.5CA to 9.6V							
Capacity	20hR(2.05A, 10.5V)	10hR(2.0A, 10.5V)	5hR(7.72A, 10.5V)	1hR(25.8A, 9.60V)				
(25℃)	41Ah	40.0Ah	38.6Ah	25.8Ah				
D: .	Length	Width	Height	Total Height				
Dimensions	197±2mm	165 ±2mm	170±2mm	170±2mm				
Approx. weight (±5%)	13.2Kg							
Internal resistance		Full charged at	25℃: 9mOhms					
Self discharge	3% of capacity declined per month at 25 ℃ (average)							
Capacity Affected	40 ℃	25 ℃	0 ℃	-15 ℃				
by Temp.(20HR)	102%	102% 100% 85%		65%				
CI VII (25°C)	Cycl	e use	Float use					
Charge Voltage (25°C)	14.4-14.7V(-30mV/°C	), max. Current:12.0A	13.5-13.8V(-20mV/°C)					

DC12400 (12V40Ah/10hr)











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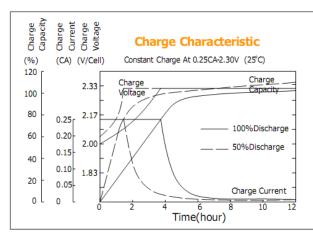
## DC12400- (12V40Ah/10hr)

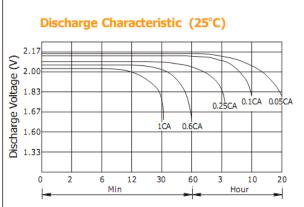
Constant current discharge ratings-amperes at 25°C

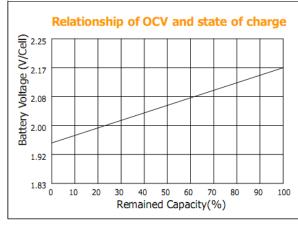
End Point									
Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	126.55	96.00	72.73	42.69	24.58	10.76	7.05	4.12	2.12
1.65V	120.00	91.64	69.31	41.89	23.64	10.47	6.85	4.09	2.09
1.70V	113.45	86.55	65.75	41.16	22.76	10.11	6.65	4.04	2.08
1.75V	106.18	81.45	62.18	40.36	21.82	9.67	6.47	4.00	2.05
1.80V	98.91	77.09	58.62	39.56	20.95	9.24	6.27	4.00	2.03

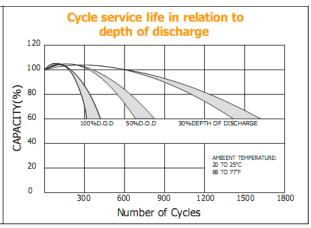
### Constant power discharge ratings-watts at25 ℃

End Point									
Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	228.4	173.1	132.4	77.82	45.16	20.00	13.09	7.71	3.98
1.65V	215.3	164.4	125.8	76.36	43.27	19.20	12.65	7.64	3.92
1.70V	201.5	154.2	118.5	74.18	41.38	18.47	12.22	7.49	3.87
1.75V	187.6	144.7	111.3	72.73	39.56	17.60	11.85	7.35	3.80
1.80V	174.5	136.0	104.7	70.76	37.67	16.73	11.42	7.27	3.74









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