

Deep Cycle SLA Battery

Range Summary

By combining up-to-date DCP additives in the positive plates and special AGM separators, bosfa created an innovative range of DC batteries. The range features 70% higher cyclic life with 12 years of float life when compared with standard Duration range. The battery series is highly suited to very unreliable power applications requiring the batteries to provide extra cyclic life performance such as outdoor applications, small RE systems and electric vehicles.

Application

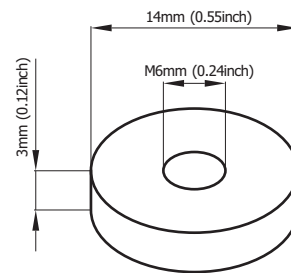
- Solar Energy System
- Golf Cars and Buggies
- Electric Powered Vehicles
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS

General Features

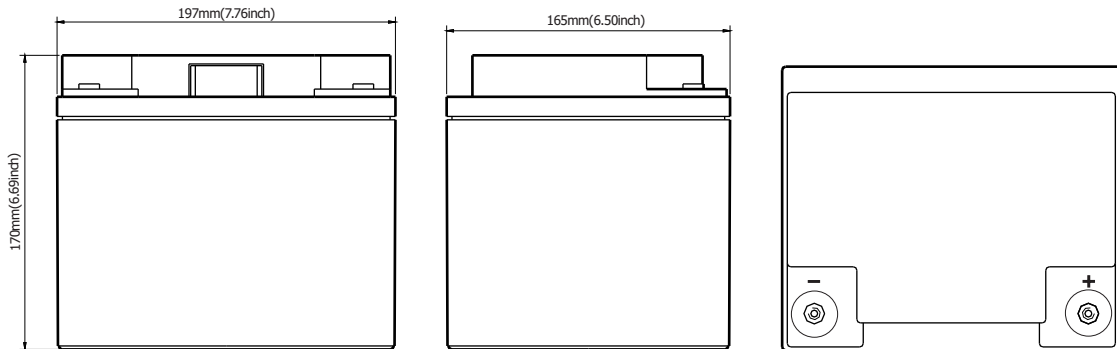
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94 V0,optional).
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexible design for multiple installation positions.

Construction

- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve ....EPDR
- Terminal .....Copper
- Separator .....AGM
- Electrolyte .....Sulfuric acid

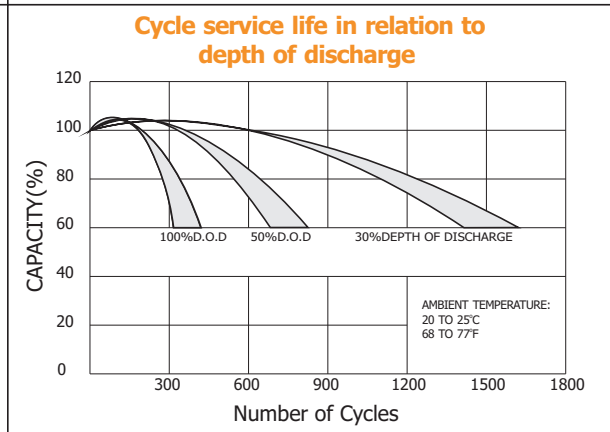
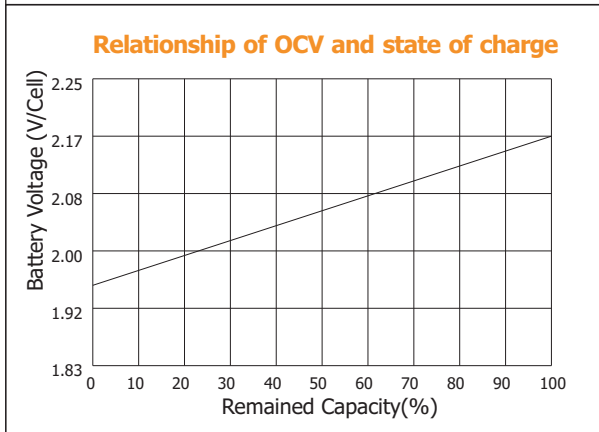
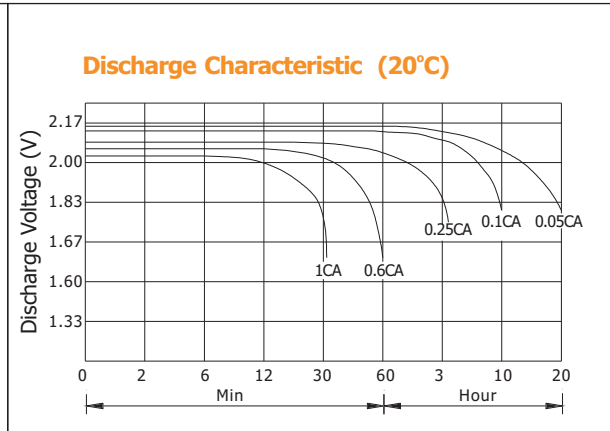
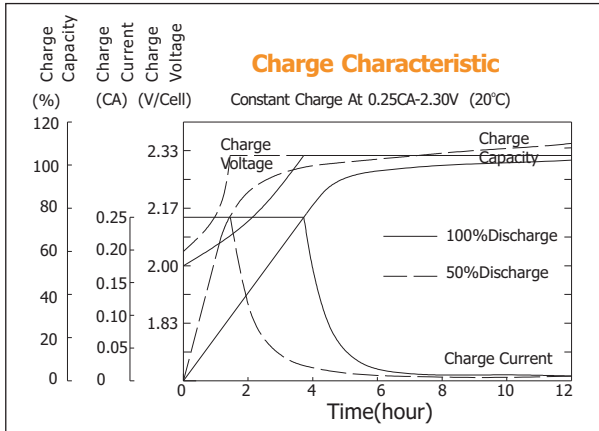


Terminal Dimensions



Battery Model	DC12-40			
Designed Cycle Life	> 350 cycles @ -0.5CA to 9.6V			
Capacity(20°C)	20HR(2.1A,1.80V)	10HR(4A,1.80V)	5HR(6.8A,1.75V)	1HR(25A,1.60V)
	42AH	40AH	34AH	25AH
Dimensions	Length	Width	Height	Total Height
	197mm(7.76inch)	165mm(6.50inch)	170mm(6.69inch)	170mm(6.69inch)
Approx. Weight	13Kg (28.7 lbs)			
Internal Resistance	Full charged at 20°C: 0.0095 Ohm			
Self Discharge	3% of capacity declined per month at (20°C)			
Capacity Affected by Temp.(20HR)	40°C	20°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(20°C)	Cycle use		Float use	
	14.4-14.8V(-30mV/ °C), max. Current: 10A		13.6-13.8V(-20mV/ °C)	

Deep Cycle SLA Battery



Constant current discharge ratings-amperes at 20°C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	140	96.0	70.0	42.0	25.0	10.9	6.91	4.24	2.21
1.67V	126	87.6	68.0	40.8	25.0	10.9	6.85	4.18	2.21
1.70V	120	84.4	65.6	40.0	25.0	10.9	6.85	4.15	2.21
1.75V	106	78.0	62.0	39.2	24.7	10.8	6.80	4.07	2.20
1.80V	96.0	72.4	59.2	38.0	24.4	10.8	6.74	4.00	2.10
1.85V	72.8	59.6	51.2	35.0	24.1	10.7	6.68	3.93	1.99

Constant power discharge ratings-watts at 20°C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	231	159	124	79.2	52.0	21.0	14.6	8.48	4.22
1.67V	219	157	123	77.6	50.3	21.0	14.6	8.36	4.20
1.70V	204	153	121	75.6	49.0	21.0	14.6	8.29	4.20
1.75V	190	143	114	73.6	48.5	20.6	14.4	8.15	4.18
1.80V	171	133	107	71.6	47.7	20.4	14.2	8.01	4.03
1.85V	137	110	93.2	65.6	47.2	20.3	14.0	7.87	3.79

