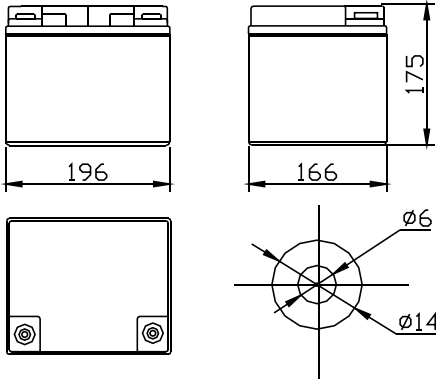




SHENZHEN XBATT ENERGY TECHNOLOGY CO.,LTD

XC12400(12V40AH-G)

Specification			Product Picture
Nominal Voltage	12V		
Nominal Capacity (20HR)	40.0AH		
Product Series	GEL		
Dimensions	Length	196±2mm (7.71inches)	
	Width	166±2mm (6.53inches)	
	Container Height	175±3mm (6.88inches)	
	Total Height(with Terminal)	175±2mm (6.88inches)	
Approx Weight	13.2kg/29.1 lbs		
Terminal	M6-16/M8-16		
Rated Capacity	40.0AH/2.00A	(20HR,10.80V,25℃/77℉)	Outer Dimensions 
	38.0AH/3.80A	(10HR,10.80V,25℃/77℉)	
	32.0AH/6.40A	(5HR,10.80V,25℃/77℉)	
	28.0AH/9.33A	(3HR,10.80V,25℃/77℉)	
	24.0AH/24.0A	(1HR,10.20V,25℃/77℉)	
Max.Discharge Current	480A(5s)		
Internal Resistance	Approx 10mΩ		
Operating Temp.Range	Discharge:	-35~50℃(-31~122℉)	
	Charge:	-20~40℃-4~104℉)	
	Storage:	-45~40℃(-49~104℉)	
Nominal Operating Temp.Range	25±3℃(77±5℉)		
Cycle Use	Initial Charging Current less than 12.0A.Voltage 14.6V~14.9V at 25℃(77℉) Temp.Coefficient -5mV/℃		
Standby Use	Initial Charging Current less than 12.0A Voltage 13.6V~13.9V at 25℃(77℉) Temp.Coefficient -3mV/℃		
Capacity affected by Temperature	40℃ 104℉	103%	
	25℃ 77℉	100%	
	0℃ 32℉	95%	
Self Discharge	Xbatt GEL series batteries may be stored for up to 12 months at25℃(77℉) and then a freshening charge is required. For higher temperatures the time interval will be shorter		
Design Life	15 years		

Discharge Constant Current (Amperes at 77°F/25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
9. 60V	128	102	73	42	31.2	24.9	13.4	9.7	6.55	3.88	2.01
9. 90V	124	98	69	41	30.8	24.5	13.1	9.7	6.50	3.83	2.01
10. 20V	117	92	66	40	30.5	24.4	13.1	9.6	6.47	3.83	2.01
10. 50V	102	77	62	38	30.0	24.1	13.0	9.3	6.47	3.81	2.00
10. 80V	92	66	59	33	29.8	23.6	12.5	9.2	6.40	3.81	2.00

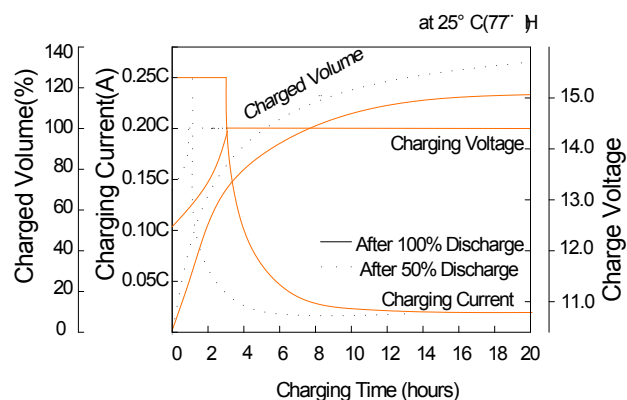
Constant Power Discharge (Watts at 77°F/25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
9. 60V	1397	1125	807	489	355.8	285.8	153.3	111.4	75.60	41.92	23.14
9. 90V	1340	1074	765	471	349.3	281.1	152.7	110.8	75.28	41.29	23.14
10. 20V	1276	1013	727	448	346.1	281.1	151.1	110.5	74.95	41.29	22.90
10. 50V	1118	852	686	422	343.0	276.7	149.3	108.9	74.95	40.96	22.43
10. 80V	997	769	648	365	336.8	271.9	144.8	105.9	74.32	40.34	21.98

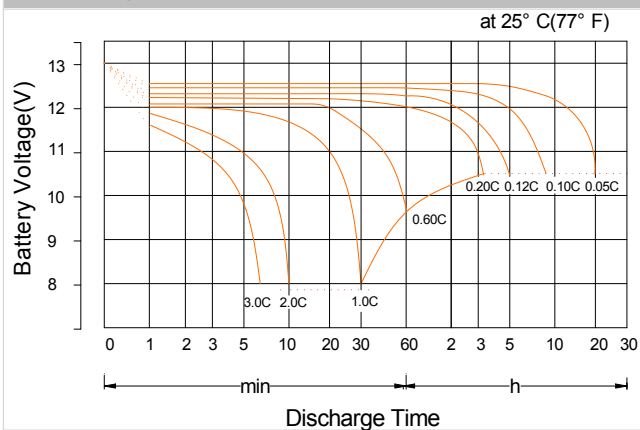
Battery Construction

COMPONENT	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
RAW MATERIAL	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Silicate

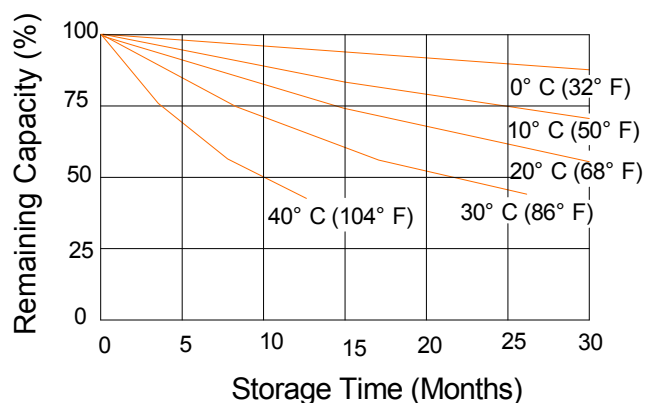
Charging characteristics



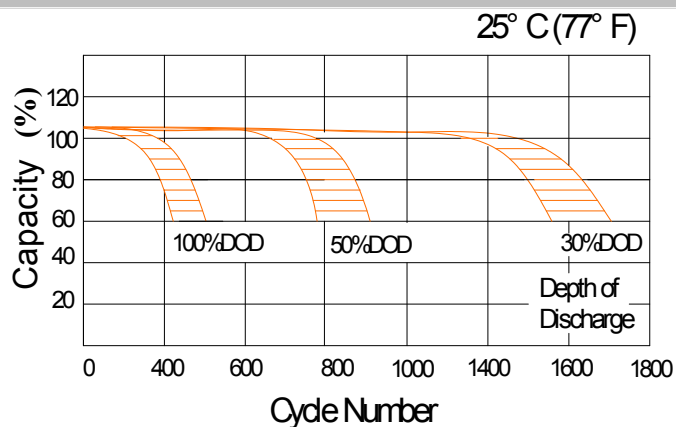
Discharge characteristics



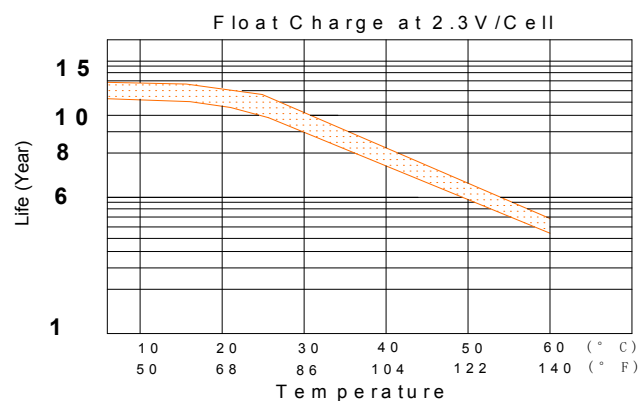
Storage characteristics



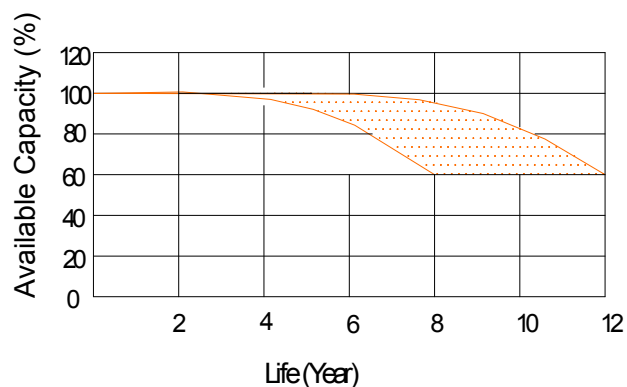
Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



Float charge Life



Consultation

SHENZHEN XBATT ENERGY TECHNOLOGY CO., LTD

Add: A 501, Anzhilong Industrial Park, Qinghu Street, Longhua District, Shenzhen, China

TEL: +86-18675582132

Website: www.szxbatt.com

E-mail: wavehu@hotmail.com