
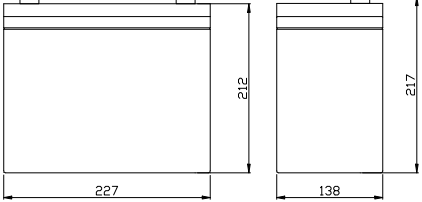
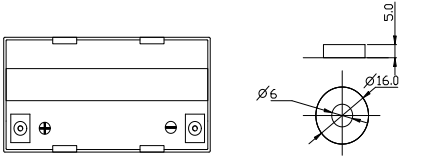




SHENZHEN XBATT ENERGY TECHNOLOGY CO.,LTD

XC12550(12V55AH-G)

Specification		Product Picture	
Nominal Voltage	12V		
Nominal Capacity (20HR)	55.0AH		
Product Series	GEL		
Dimensions	Length		227±2mm (8.93inches)
	Width		138±2mm (5.43inches)
	Container Height		212±3mm (8.34inches)
	Total Height(with Terminal)		217±2mm (8.54inches)
Approx Weight	17.5kg/38.5 lbs		
Terminal	M6-16/M8-16		
Rated Capacity	55.0AH/2.75A		(20HR, 10.80V, 25°C/77°F)
	52.3AH/5.23A	(10HR, 10.80V, 25°C/77°F)	
	44.0AH/8.80A	(5HR, 10.80V, 25°C/77°F)	
	38.5AH/12.8A	(3HR, 10.80V, 25°C/77°F)	
	33.0AH/33.0A	(1HR, 10.20V, 25°C/77°F)	
Max. Discharge Current	660A(5s)		
Internal Resistance	Approx 7mΩ		
Operating Temp. Range	Discharge:	-35~50°C (-31~122°F)	
	Charge:	-20~40°C (-4~104°F)	
	Storage:	-45~40°C (-49~104°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)		
Cycle Use	Initial Charging Current less than 16.5A. Voltage 14.6V~14.9V at 25°C (77°F) Temp. Coefficient -5mV/°C		
Standby Use	Initial Charging Current less than 16.5A Voltage 13.6V~13.9V at 25°C (77°F) Temp. Coefficient -3mV/°C		
Capacity affected by Temperature	40°C 104°F	103%	
	25°C 77°F	100%	
	0°C 32°F	95%	
Self Discharge	Xbatt GEL series batteries may be stored for up to 12 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter		
Design Life	15 years		
		Outer Dimensions	
			
			
		Applications	
		<ul style="list-style-type: none"> ◆Tele-communication central station (wired or cellular) ◆Power system communication military communication, etc. ◆Uninterruptable Power System (UPS-for Telecom) ◆Electric tool ◆Solar Powered system ◆Medical equipmen 	

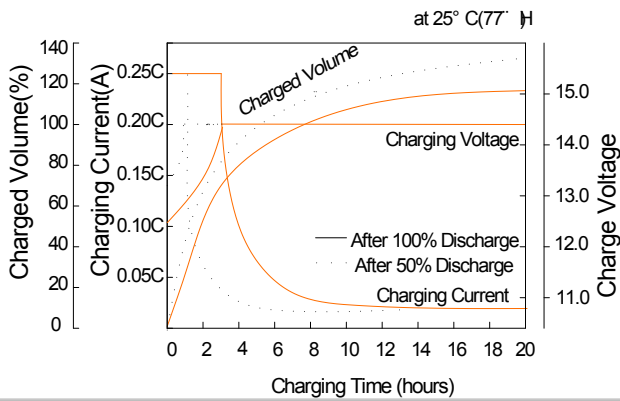
Discharge Constant Current (Amperes at 77°F/25°C)											
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
9. 60V	183	146	105	60	42.8	34.7	18.7	13.5	9.0	5.33	2.80
9. 90V	178	141	100	59	42.4	34.4	18.5	13.5	8.9	5.33	2.80
10. 20V	168	131	94	57	41.8	34.2	18.4	13.4	8.9	5.33	2.75
10. 50V	146	110	89	54	41.3	33.6	18.2	13.2	8.9	5.23	2.75
10. 80V	131	94	84	47	40.8	33.1	17.6	12.8	8.8	5.23	2.75

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	1937	1559	1118	678	493.1	396.2	212.5	154.3	104.8	57.32	30.79
9. 90V	1857	1488	1060	653	484.2	389.7	211.5	153.6	104.3	56.51	30.79
10. 20V	1768	1405	1007	620	479.8	389.7	209.4	153.2	103.8	56.51	30.47
10. 50V	1549	1181	951	585	475.4	383.5	207.0	151.0	103.8	56.03	29.83
10. 80V	1383	1066	898	506	466.8	377.0	200.7	146.8	103.0	55.14	29.26

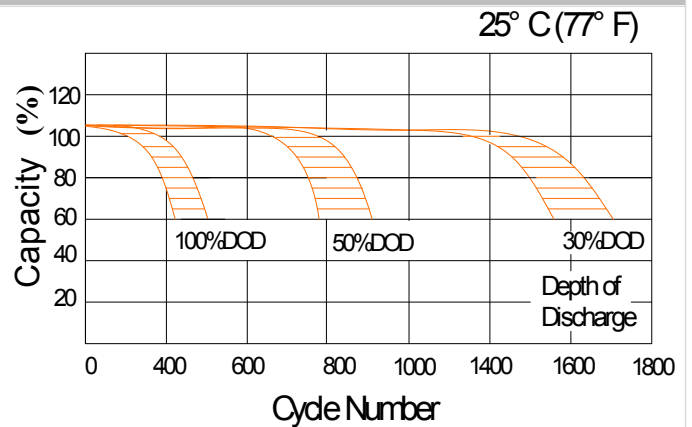
Battery Construction

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

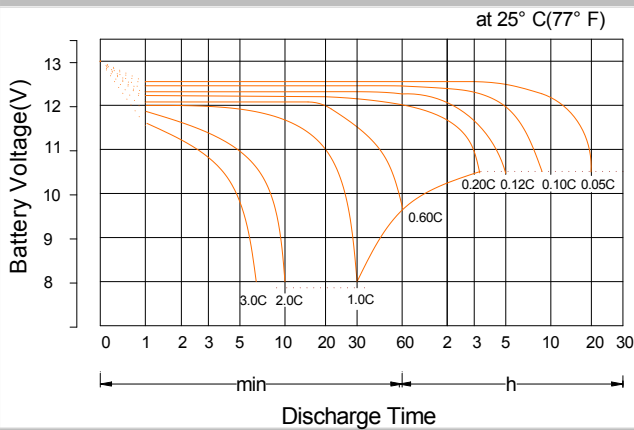
Charging characteristics



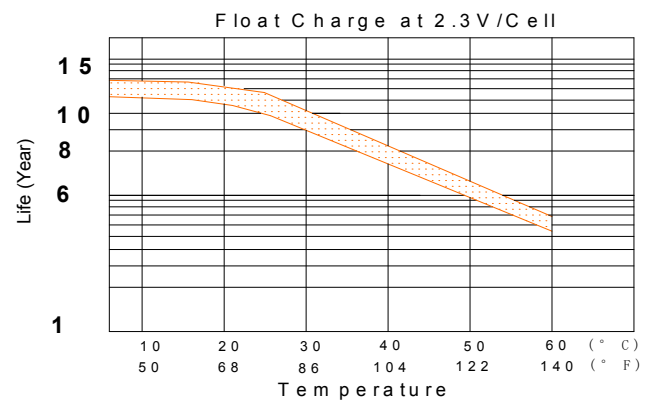
Cycle Life in Relation to Depth of Discharge



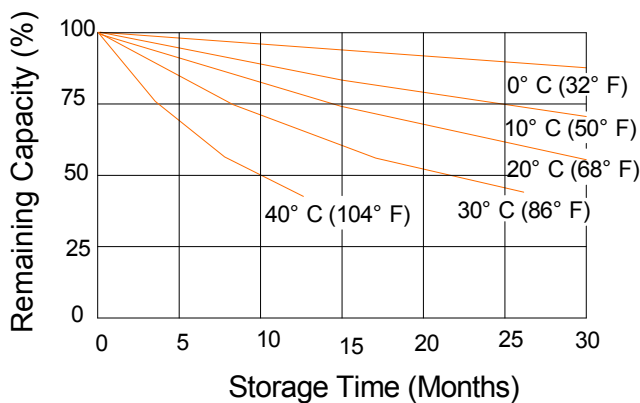
Discharge characteristics



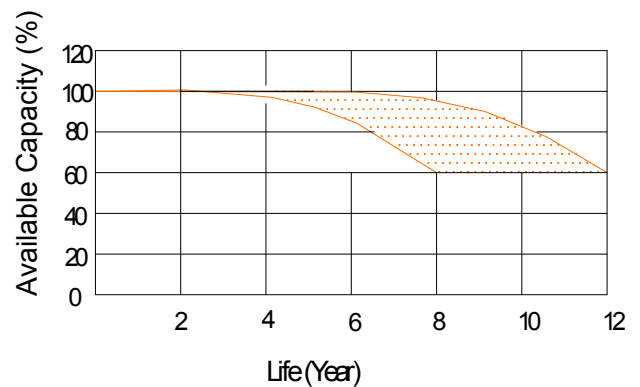
Effect of Temperature on Long Term Float Life



Storage characteristics



Float charge Life



Consultation

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