

General Series Battery

ENERGO® General (GP) Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. GP Series Batteries are the general purpose batteries with 10 years floating design life at 25 °C Met with IEC, BS, JIS and Eurobat standard. UL(MH62092), CE approved.

Application

- * Emergency Power System
- * Communication equipment
- * Telecommunication systems
- * Uninterruptible power supplies
- * Electric toy car and wheelchairs, etc.
- * Power tools
- * Alarm system
- * Marine equipment
- * Medical equipment
- * Fire and Security System



General Features

- * Heavy Duty Grid
- * Mechanized assembly
- * Non-spillable construction
- * High Reliability and Stability
- * Sealed and Maintenance-free
- * Long Life and low self-discharge design

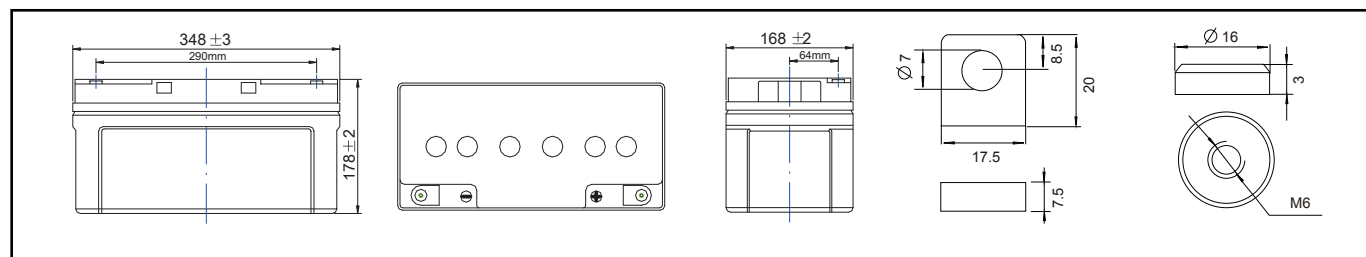
Construction

- * Positive Lead dioxide
- * Electrolyte Sulfuric acid
- * Separator Fiber glass
- * Container ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- * Negative Lead
- * Safety Valve EPDR
- * Terminal Copper

Specification

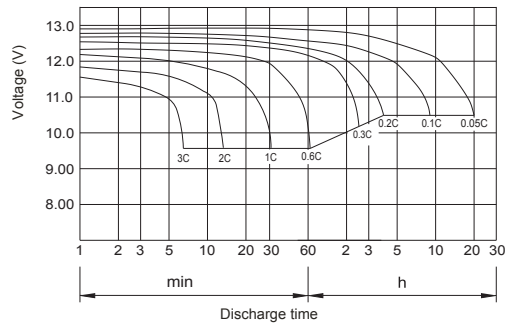
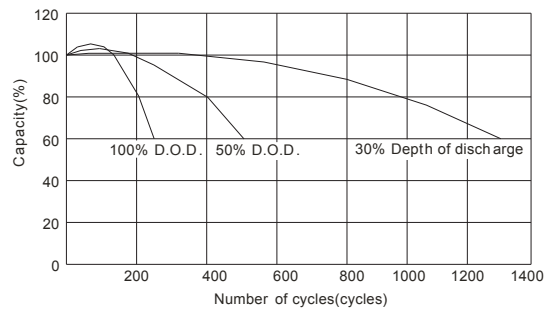
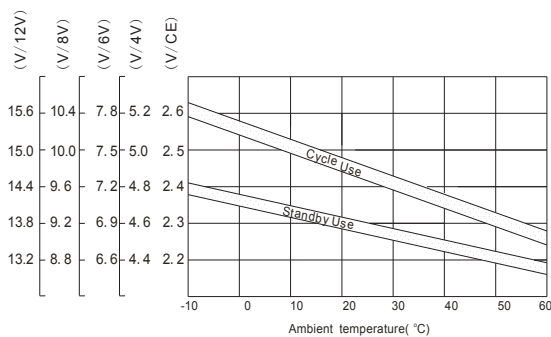
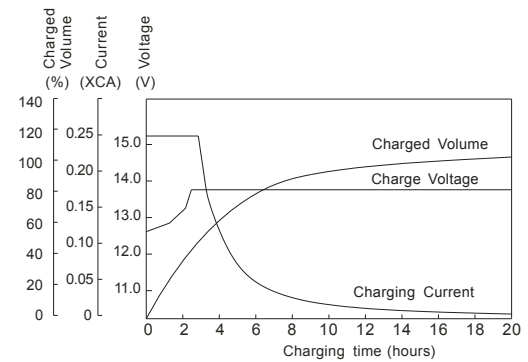
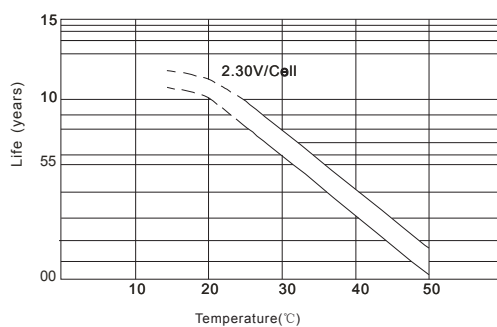
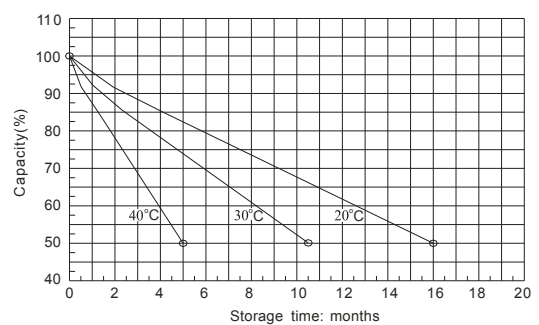
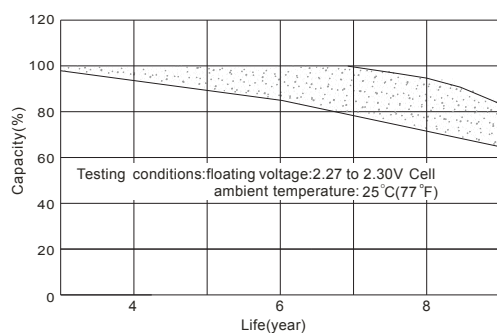
Battery Model	Nominal Voltage		12V	
	Rated capacity (10 Hour rate)		60Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	348mm (13.70 inches)	168mm (6.61 inches)	178mm (7.01 inches)	178mm (7.01 inches)
Approx Weight	17.1kg(37.69lbs) ± 3%			
Capacity @ 25°C (77°F)	10 hour rate(5.8A,10.5V)	5 hour rate(10.32A,10.5V)	3 hour rate(15A,10.8V)	1 hour rate(34.8A,9.6V)
	58Ah	51.6Ah	45Ah	34.8Ah
Max.discharge current	600A (5 Sec.)			
Internal Resistance	Full charged at 25°C (77°F) : Approx 8.5mΩ			
Capacity affected by Temp.(10 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge @25°C (77°F)	After 3 months storage		After 6 months storage	After 12 months storage
	91%		82%	64%
Charge method @25°C (77°F)	Cycle Use		Float Use	
	14.40-14.70V (Initial charging current less than 18A)		13.50-13.80V	

Outer dimension (mm)



Terminal Type (mm)

Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)										
F.V/time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	98.600	60.000	34.800	25.470	21.470	15.294	10.437	7.390	6.018	3.297
	190.298	119.520	69.426	50.855	42.958	30.600	20.883	14.787	12.042	6.596
1.67V	93.478	58.718	34.548	25.217	21.363	15.214	10.380	7.328	5.925	3.132
	180.553	117.025	68.928	50.364	42.780	30.495	20.806	14.693	11.879	6.279
1.70V	91.173	58.205	34.296	25.192	21.310	15.175	10.377	7.255	5.850	3.048
	176.237	116.006	68.507	50.334	42.691	30.426	20.806	14.553	11.735	6.115
1.75V	87.331	57.179	33.791	24.864	21.176	15.080	10.322	7.234	5.800	3.000
	168.986	114.045	67.667	49.729	42.416	30.250	20.706	14.523	11.644	6.023
1.80V	83.746	55.897	33.539	24.688	21.042	15.000	10.294	7.172	5.706	2.901
	162.300	111.538	67.246	49.499	42.156	30.105	20.659	14.409	11.464	5.828
1.85V	79.392	54.359	33.035	24.410	20.855	14.866	10.236	7.078	5.613	2.802
	154.021	108.547	66.334	49.065	41.800	29.866	20.564	14.235	11.288	5.635

Discharge characteristic Curve

Cycle service life in relation to depth of discharge

Relationship between charging voltage and temperature

Constant voltage charging characteristic (0.25CA, at 25°C)

Temperature effects on float life

Self-discharge characteristic

Life characteristics of standby use

Charge characteristic Curve for standby use
