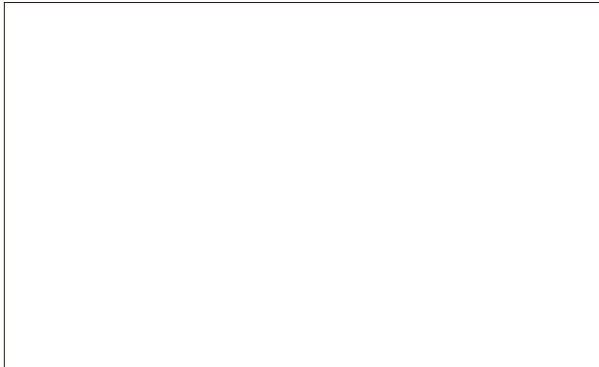
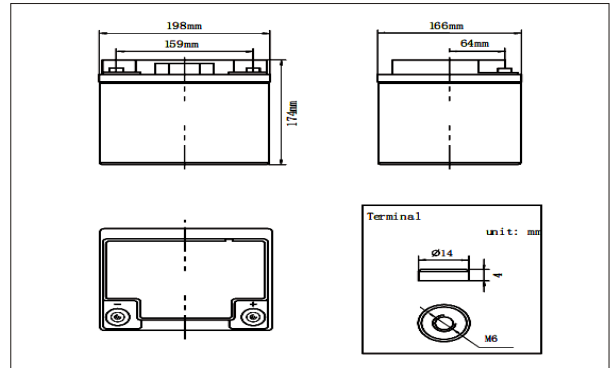




● Battery picture



● Outer dimensions (mm)



The FGET sealed lead-acid rechargeable battery (VRLA battery) is leak-proof and maintenance free. The Superiority of VRLA battery is derived from its uniquely efficient oxygen recombination technology. The oxygen evolved from the positive plates diffuses through the micro porous glass fiber mat to the negative plates where it is changed back to water by recombination reaction, eliminating the need for water addition. The result is a maintenance free battery.

● Battery Construction

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

● General Features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

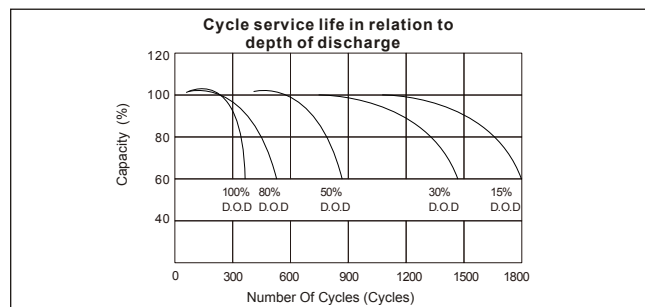
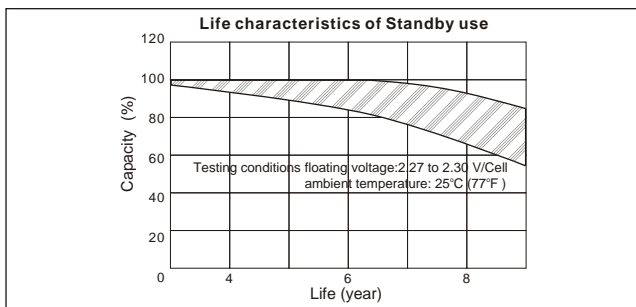
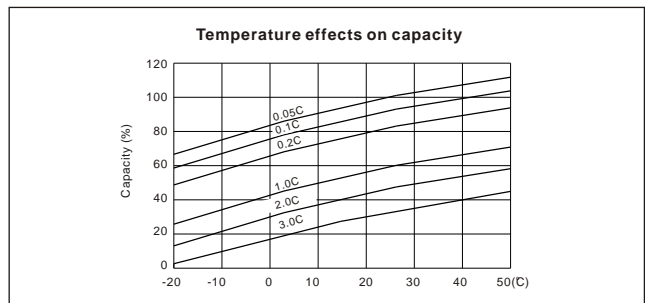
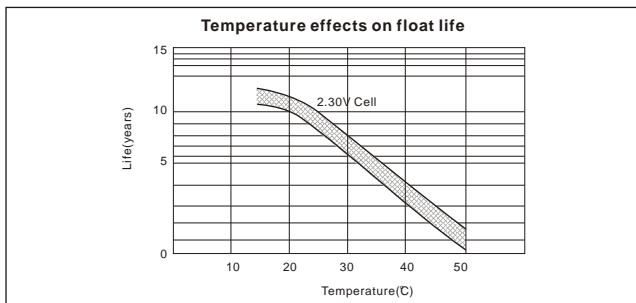
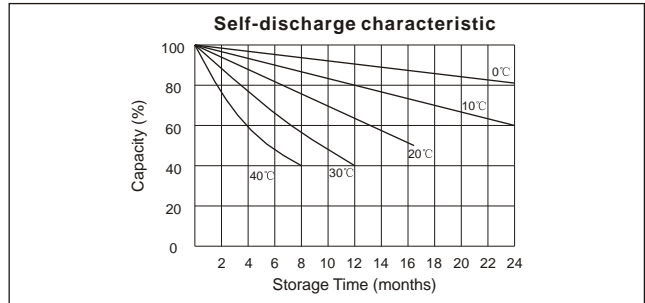
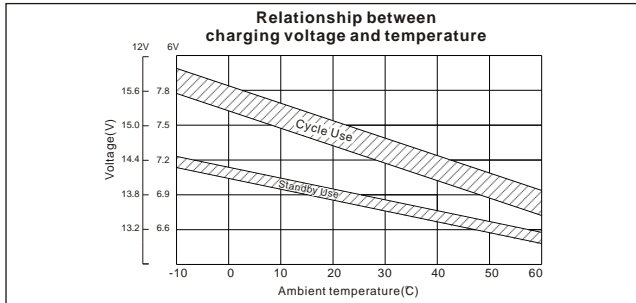
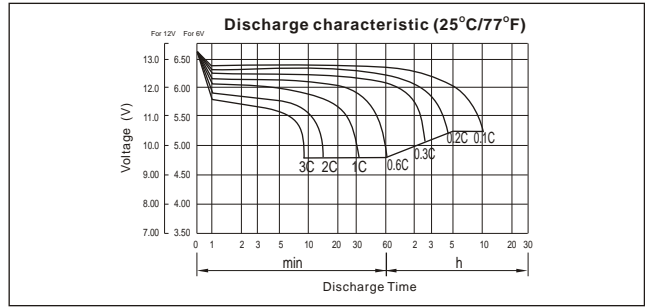
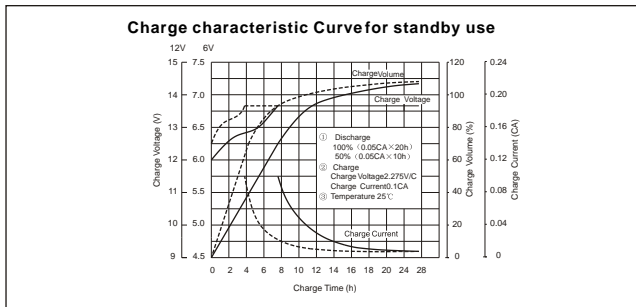
● Application

- Alarm System
- Medical Equipment
- Cable Television
- Control Equipment
- UPS
- Communication Equipment
- Toys
- Emergency power System
- Power Tools
- Security System

● Specifications

Nominal Voltage		12V
Capacity (10 hr 25°C)		45Ah
Design Life		5 Years
Dimensions	Length	198 mm (7.80 inch)
	Width	166 mm (6.54inch)
	Height	174 mm (6.85 inch)
	Total Height	174 mm (6.85 inch)
Approx. Weight		13.5 Kg
Capacity 25°C (77°F)	10 hr rate	45Ah
	3 hr rate	36Ah
	1 hr rate	29.25Ah
Internal Resistance (Full charged Battery at 25°C (77°F))		7.80mΩ

Capacity affected by Temperature (20hr)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge at 25°C	3 month	Remaining capacity: 91%
	6 month	Remaining capacity: 82%
	12 month	Remaining capacity: 65%
Normal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range		-15°C ~ 50°C (5 ~ 122°F)
Float charging voltage (25°C)		13.60 to 13.80V
Cyclic charging voltage (25°C)		14.50 to 14.90V
Maximum charging current		13.5A
Terminal material		Copper
Maximum Discharge current		450A (5sec)



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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	150.8	111.0	86.54	52.74	29.25	17.49	12.08	10.01	8.424	5.754	4.773	2.547
10.0V	146.4	105.6	84.76	51.83	29.12	17.36	12.03	9.960	8.374	5.707	4.727	2.500
10.2V	142.1	101.9	83.43	50.87	28.85	17.23	11.94	9.913	8.325	5.661	4.681	2.454
10.5V	127.6	94.03	79.44	50.48	28.58	17.10	11.89	9.821	8.226	5.614	4.635	2.408
10.8V	115.2	85.74	73.23	49.62	27.90	16.79	11.57	9.589	8.077	5.520	4.589	2.361
11.1V	98.32	76.63	65.68	46.46	26.51	16.05	11.06	9.126	7.730	5.286	4.451	2.222

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	1591	1182	943.4	591.8	338.0	206.2	143.7	119.3	100.5	68.71	57.03	30.53
10.0V	1559	1146	928.3	584.5	337.2	205.1	143.8	119.1	100.2	68.37	56.67	30.00
10.2V	1542	1116	917.8	580.4	334.6	203.8	143.2	118.9	99.90	67.93	56.17	29.45
10.5V	1403	1039	875.5	576.4	331.6	202.4	142.6	117.7	98.71	67.37	55.62	28.89
10.8V	1278	957.8	809.2	567.1	325.5	199.8	138.7	115.1	96.93	66.24	55.07	28.34
11.1V	1123	865.9	728.4	534.2	311.5	192.4	132.7	109.5	92.76	63.44	53.42	26.67

(Note) The above characteristics data are average values.