

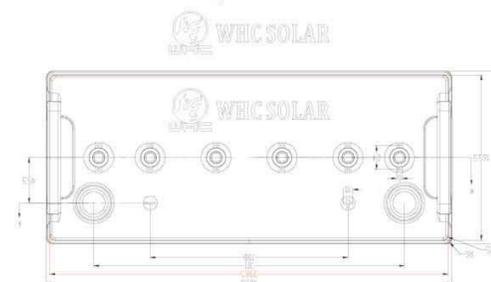
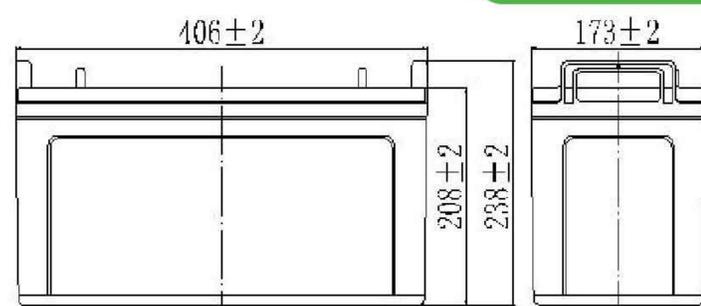
Specifications »

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	100 Ah
	5HR(10.5V)	87Ah
	1HR(9.60V)	62Ah
Dimension	Length	406±2mm (15.98inch)
	Width	173±2mm (6.81inch)
	Height	208±2mm (8.19inch)
	Total Height	238±2mm (9.37inch)
Terminal Type		T19/T11
Internal Resistance (Fully charged, 25°C)		Approx. 4.5mΩ
Capacity Affected By Temperature (10HR)	40 °C	102%
	25 °C	100%
	0 °C	85%
	-15 °C	65%
Self -Discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal Operating Temperature		25°C±3°C (77°F± 5°F)
Operating Temperature Range	Discharge	-15°C ~ 50°C (5°F ~ 122°F)
	Charge	-10°C ~ 50°C (14°F ~ 122°F)
	Storage	-20°C ~ 50°C (-4°F ~ 122°F)
Float Charging Voltage(25°C)		13.50 to 13.80V Temperature Compensation: -18 mV/°C
Cyclic Charging Voltage(25°C)		14.50 to 14.90V Temperature Compensation: -30mV/°C
Maximum Charging Current		30A
Terminal Material		T19: Lead, T11: Copper
Maximum Discharge Current		800A(5 sec.)

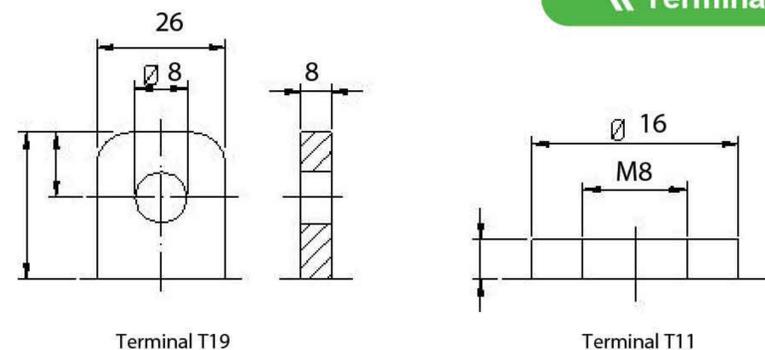
◆ Absorbent glass mat technology; ◆ ABS container.



« Dimensions



« Terminal



Constant Current Discharge Characteristics (A, 25°C)

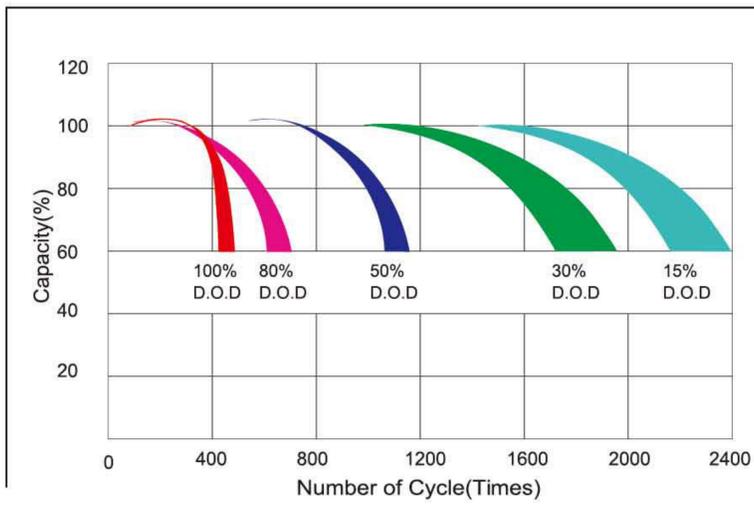
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	135	93.2	58.2	34.0	24.0	18.9	15.8	13.5	10.5	9.37	5.11	---	---
9.90V	132	91.3	57.3	33.8	23.8	18.8	15.7	13.4	10.4	9.35	5.10	---	---
10.2V	127	88.5	55.9	33.5	23.7	18.6	15.6	13.3	10.4	9.32	5.06	2.23	---
10.5V	123	86.4	54.8	33.0	23.5	18.5	15.5	13.2	10.3	9.26	5.00	2.22	0.92
10.8V	116	83.2	53.1	32.2	22.8	17.9	15.0	12.8	9.99	9.20	5.00	2.22	0.92

Constant Power Discharge Characteristics (Watt, 25°C)

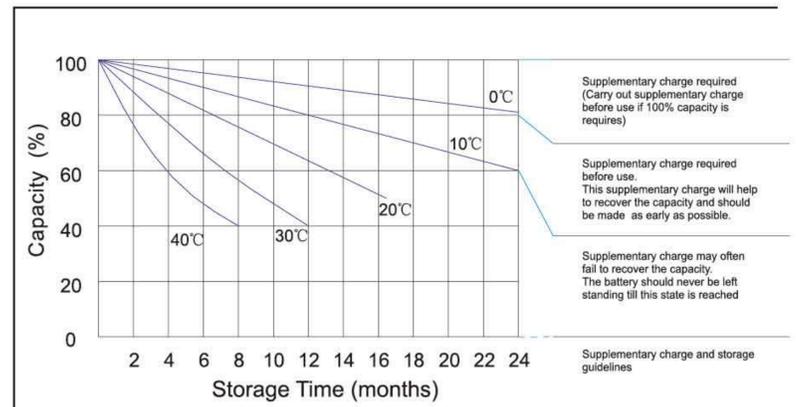
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	1507	1062	670	396	283	223	188	160	125	112	61.6	---	---
9.90V	1470	1041	660	393	282	222	187	159	125	112	61.5	---	---
10.2V	1416	1009	644	390	280	220	185	158	124	112	61.3	26.8	---
10.5V	1368	985	631	384	278	219	184	157	123	111	60.3	26.6	11.1
10.8V	1296	949	611	374	269	212	179	152	119	110	60.5	26.6	11.0

Note: The Above Characteristics Data Can Be Obtained Within Three Charge/discharge Cycles.

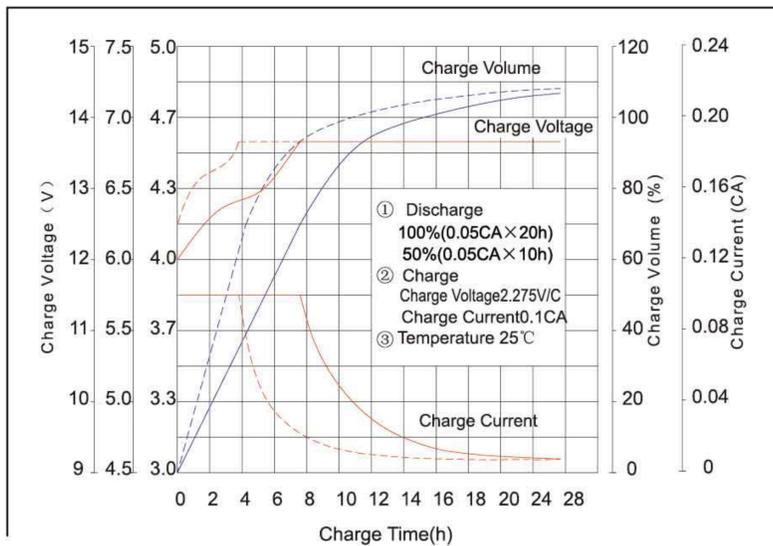
Life Characteristics Of Cyclic Use



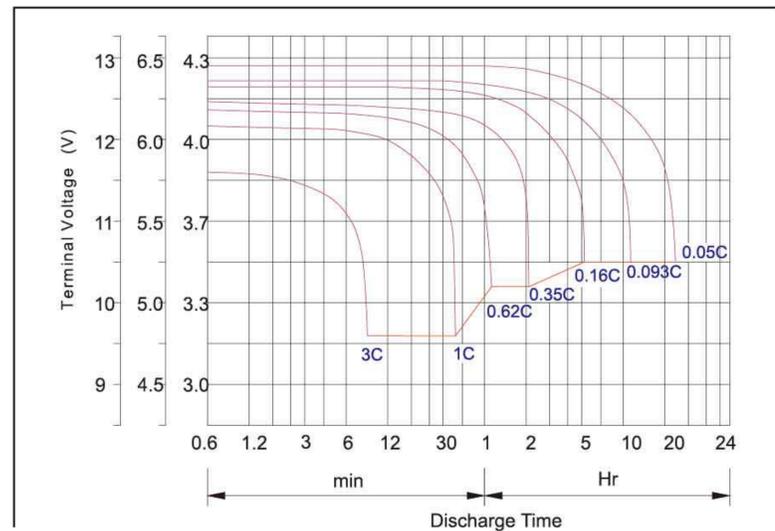
Storage Characteristic



Charge Characteristic Curve For Cyclic Use



Discharge Characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current Vs. Discharge Voltage

Final Discharge Voltage V /cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Charge The Batteries At Least Once Every Six Months, If the X23655mm stored At 25°C.

Charaina Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/cellx24h, Max. Current 0.2C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.2Cx6h

Bolt	M5	M6	M8
Terminal	F3F4F13F18T25T26	F8 F11 F12-1 F15	F5F9F10F12F14F16
Torque	6~7N-m	8~10N-m	10~12N-m

Maintenance & Cautions

Cycle Service»

- Avoid Battery Over Discharge, Especially Battery Sereis Connection Use. ✖
- Charged With Recommend Voltage, Ensure Battery Can Be Full Recharged. ✖
- In General, Recharge Capacity Should Be 1.1-1.15 Times Discharge Capacity.
- There Are A Number Of Factors That Will Affect The Length Of Cyclic Service. ✖
- Generally Specking, The Most Important Factors Is Depth Of Discharge.
- Effect Of Temperature On Cycle Charge Voltage: -4mv/°c/cell. ✖
- The Most Significant Are Depth Of Discharge, Ambient Temperature.
- Discharge Rate, And The Manner In Which The Battery Is Recharged.