



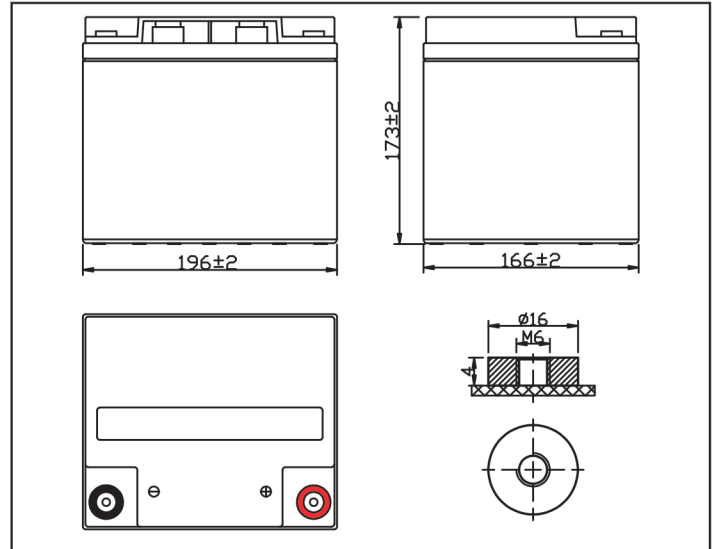
ENERGY STORAGE BATTERY - GEL DEEP CYCLE SERIES

MODEL: FG50-12(GEL)-DEEP CYCLE-SOLAR



Plane Chart:

Unit:(mm) Terminal type:(T1)



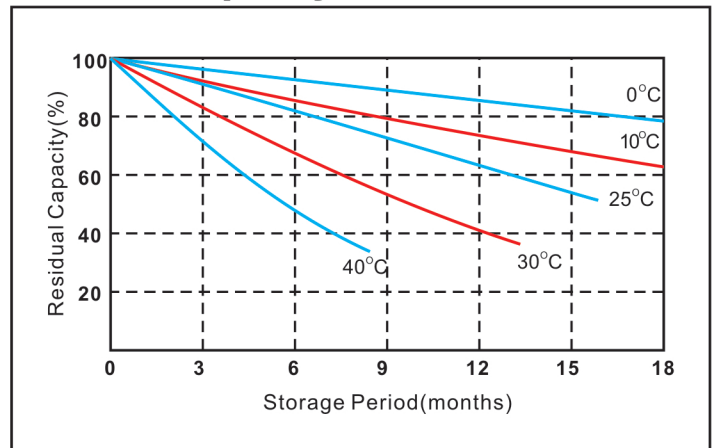
ISO 9001
ISO 14001
OHSAS18001



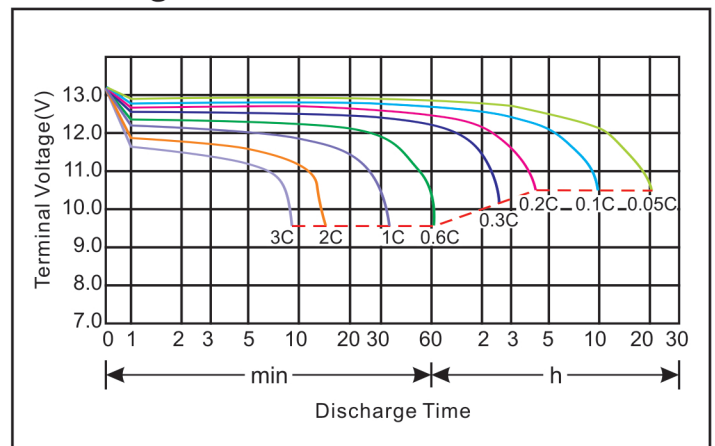
Parameter Chart:

Volts		12V
Capacity(25°C)	20 hours rate (2.5A)	50Ah
Discharge Current Testing (25°C)	1 hours rate (27.5A)	28Ah
	3 hours rate (12.5A)	35Ah
Internal Resistance	Full Charged Battery 25°C	8.5mΩ
Capacity Affected By Temperature	40°C	104%
	25°C	100%
	0°C	83%
	-15°C	65%
Residual Capacity (25°C)	Capacity After 3 Months Storage	91%
	Capacity After 6 Months Storage	82%
	Capacity After 12 Months Storage	65%
Charge (Constant Voltage)	Cycle (25°C)	Initial Charging Current Less Than 15A Voltage 14.5~14.9V
	Float (25°C)	Charge Voltage 13.6~13.8V
Weight (Approx)		14.3Kg

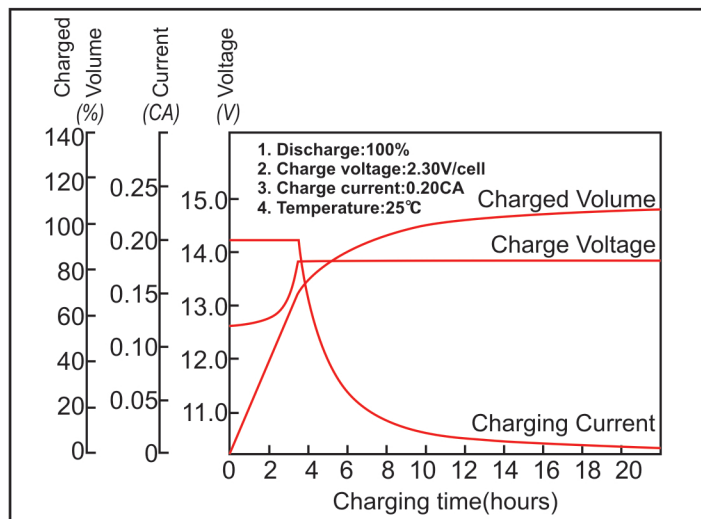
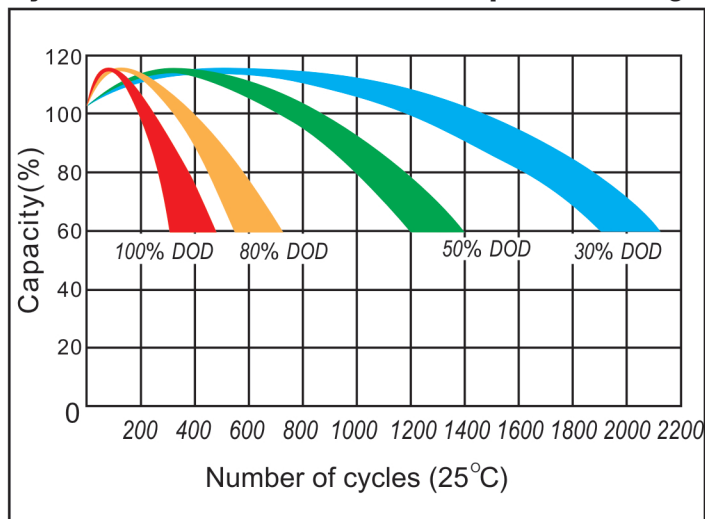
Residual Capacity



Discharge Current 25°C



★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

MODEL: FG50-12(GEL)-DEEP CYCLE-SOLAR
Constant voltage charging characteristics

Cycle service life in relation to the depth of discharge

Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	129.2	85.9	68.1	45.0	26.0	15.1	11.0	7.8	5.2	4.3	2.4
10.2V	122.7	81.6	65.4	43.6	25.0	14.9	10.8	7.7	5.1	4.3	2.3
10.5V	118.9	79.1	63.8	42.5	24.3	14.7	10.7	7.6	5.1	4.2	2.3
10.8V	115.2	76.7	62.2	41.0	23.7	14.6	10.6	7.5	5.0	4.3	2.2

Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	1353.0	927.8	747.8	499.2	296.7	174.1	129.8	91.8	61.4	51.6	27.2
10.2V	1285.2	881.5	718.4	486.5	284.8	171.6	127.5	90.4	60.9	51.0	27.0
10.5V	1246.4	855.2	700.5	473.2	277.7	170.3	126.4	89.5	60.6	50.6	26.8
10.8V	1207.7	828.8	682.6	464.5	270.6	168.4	125.3	88.6	60.0	50.0	26.7

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	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.