

## F.E. Model: FSBFE076- FE12-100DG



**FE12-100DG** is GEL deep cycle battery, with 12 years floating design life, superiorly designed for frequent cyclic discharge application under extreme temperature. By using strong grid to insure reliable performance under frequent cyclic discharge use, 400 cycles could be available at 100% DOD. Offering extra-durable cyclic performance, high efficiency of recovery, that is more suitable for solar.

### Specification

Cell Number	6
Nominal Voltage	12V
Weight(Approx.)	44.0/97.0Kg/lbs
Dimension(L×W×H)	513×163×218mm
Specific Energy	27.27Wh/Kg
Capacity(25°C,77°F)	10hr(10.0A,10.80V) 100AH 5hr(15.9A,10.80V) 79.5AH 1hr(55.7A,10.50V)55.7AH
Internal Resistance(fully charged state)	3.91mΩ
Maximum Charge Current	30A
Short Circuit Current	2950A
Charge Voltage in Floating USE(Per cell)	2.27V
Charge Voltage in Cycling USE(Per cell)	2.4V
Design floating life	12 year
Operating Temperature Range	-20°C ~+55°C
Terminal Type	GFM—24
Terminal Material	Cu(Tin coated)
Torque Value	12~16N.m

### Constant Current Discharge Data (Amperes Per cell at 25°C, 77°F)

End Voltage (V/cell)	Discharge Time(minutes)												
	5	10	15	20	30	45	60	90	120	180	300	600	1200
<b>1.60</b>	279.3	203.6	158.6	133.0	97.2	76.2	57.8	44.9	34.4	25.2	17.0	10.0	5.40
<b>1.65</b>	265.0	196.4	155.5	130.9	96.2	74.7	56.7	44.3	34.4	25.2	17.0	10.0	5.40
<b>1.70</b>	249.6	186.2	152.4	127.9	95.1	72.4	56.7	43.6	34.4	25.2	17.0	10.0	5.40
<b>1.75</b>	231.2	172.9	147.3	122.8	92.1	70.4	55.7	43.0	34.4	25.2	17.0	10.0	5.40
<b>1.80</b>	197.4	157.5	138.1	114.6	87.0	67.8	54.6	41.8	33.4	24.2	15.9	10.0	5.00

### Constant Current Discharge Data (Amperes Per cell at 25°C, 77°F)

End Voltage (V/cell)	Discharge Time(minutes)												
	5	10	15	20	30	45	60	90	120	180	300	600	1200
<b>1.60</b>	493.0	369.3	289.9	243.3	182.3	137.1	106.8	83.0	65.0	47.1	32.2	19.0	10.2
<b>1.65</b>	458.6	355.7	283.8	240.4	180.7	135.9	104.9	82.4	65.0	47.1	32.2	18.8	10.2
<b>1.70</b>	419.3	336.1	274.0	235.5	178.2	134.0	104.9	81.6	65.0	47.1	32.2	18.8	10.2
<b>1.75</b>	386.5	311.5	265.5	226.6	173.6	130.9	103.0	80.8	65.0	47.1	32.2	18.6	10.2
<b>1.80</b>	359.6	284.0	253.5	212.3	165.4	126.2	101.6	78.9	63.4	45.9	30.5	18.1	9.92

