



F.E. Model: FSBFE080- FE2-300DG

FE2-300DG is GEL deep cycle battery, with 15 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	1
Nominal Voltage	2V
Weight(Approx.)	21.3/47.0Kg/lbs
Dimension(L×W×H)	171×151×334mm
Specific Energy	28.2Wh/Kg
Capacity(25°C,77°F)	10hr(20.0A,1.80V)300AH 3hr(51.2A,1.80V) 230.4AH 1hr(121A,1.75V)168AH
Internal Resistance(fully charged state)	0.54mΩ
Maximum Charge Current	45A
Short Circuit Current	3600A
Charge Voltage in Floating USE(Per cell)	2.25V
Charge Voltage in Cycling USE(Per cell)	2.35V
Design floating life	15 year
Operating Temperature Range	-20°C ~+55°C
Terminal Type	GFM—22
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	60	120	180	300	360	480	600	1200
1.65	720	540	417	392	330	179	102	82.5	57.0	51.0	39.9	32.9	17.9
1.70	648	500	380	356	300	173	98.3	82.5	55.7	48.3	38.7	31.8	17.6
1.75	584	464	345	323	273	168	94.5	80.4	54.6	47.6	38.0	30.9	17.1
1.80	525	429	314	294	248	162	88.8	76.8	52.5	45.8	36.5	30.0	16.5
1.85	473	395	285	267	225	150	83.6	72.0	49.4	42.9	34.2	28.4	15.9

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
1.65	1263	963	777	707	605	332	188	156	105	90.8	72.0	60.6	34.1
1.70	1163	911	713	683	575	326	185	156	103	89.0	70.5	59.0	33.2
1.75	1070	860	693	659	546	318	182	155	101	87.2	69.2	57.2	32.1
1.80	984	813	651	635	519	312	179	149	99.0	85.5	67.8	55.5	31.2
1.85	905	768	603	612	492	306	176	141	95.3	81.3	64.4	52.8	29.7

