



NON-SPILLABLE

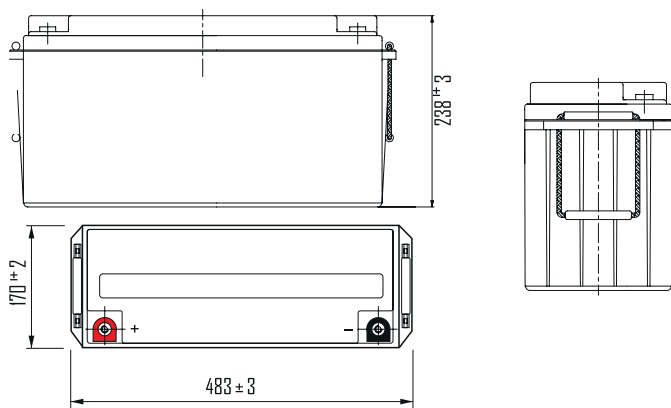
CYCLE LIFE UP TO 500

AGM

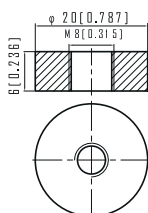
FPC Series are deep cycle batteries specially designed for long duration cyclic applications, ie with use in charge and then intensive discharge. With advanced AGM valve regulated technology and oversized negative plates, the FPC Series ensure very good cyclic performance with greater depth of discharge for mobility-type applications such as medical, golf and also renewable energies storage. In harsh use conditions (high temperature, higher deep of discharge...), the Gel FPG range is recommended.

DIMENSIONS & WEIGHT

LENGTH	483±3mm
WIDTH	170±2mm
TOTAL HEIGHT	238.5±3mm
WEIGHT	43.2kg (tolerance ± 3%)



TERMINAL (MM)



SPECIFICATION

Nominal voltage	12V (6 cells)
Nominal capacity	160.8Ah (20hr)
Cycle life	Up to 400 cycles at 80% DOD* (80% capacity - 20°C) Up to 500 cycles at 50% DOD* (80% capacity - 20°C)
Internal resistance	Approx 2.5mΩ
Terminal	TII
Max. discharge current	1500A (5 sec)
Reference capacity	160.8Ah (20hr, 1.80V/cell, 25°C) 150.0Ah (10hr, 1.80V/cell, 25°C) 131.6Ah (5hr, 1.75V/cell, 25°C) 119.3Ah (3hr, 1.75V/cell, 25°C) 96.9Ah (1hr, 1.60V/cell, 25°C)

Charge voltage	13.5V ~ 13.8V 25°C
Standby use voltage	Temperature compensation: -20mV/°C/Cell
Cycle use voltage	14.4V ~ 15.0V 25°C Temperature compensation: -20mV/°C/Cell
Operating temp. range	Discharge: -15°C ~ 50°C Charge: 0°C ~ 40°C Storage: -15°C ~ 40°C

Nominal operating temp. range 25°C ± 3°C

Self discharge Can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly self-discharge ratio is less than 3% at 25°C

Capacity affected by temp.	40°C	103%
	25°C	100%
	0°C	86%

Container material A.B.S. UL94-HB

*DOD = Depth of discharge

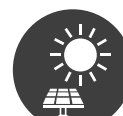
APPLICATIONS



Mobility



Golf Caddy



Solar



Leisure



Marine



Wind

APPROVALS

ISO9001 - Quality management system
ISO14001 - Environmental management System
Approved for transport by Air (IATA)

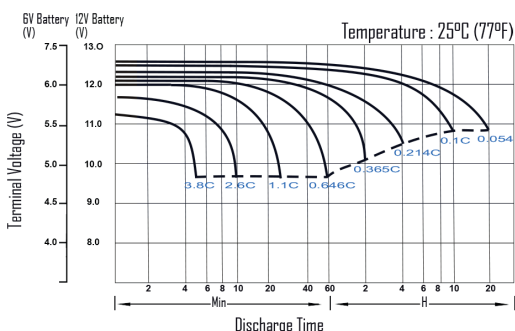
CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C/77°F

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	219.6	184.8	161.5	116.2	92.3	74.9	46.5	36.3	29.4	23.9	20.8	17.0	14.2	7.97
1.80V/cell	280.6	223.3	190.9	137.1	107.3	83.9	50.8	39.0	31.4	25.6	22.3	18.0	15.0	8.04
1.75V/cell	308.3	243.9	205.3	142.3	111.4	87.8	52.7	39.8	32.1	26.3	23.0	18.3	15.2	8.12
1.70V/cell	336.1	260.4	215.8	148.2	115.8	90.5	54.8	40.9	32.9	27.0	23.4	18.6	15.3	8.27
1.65V/cell	362.7	276.9	229.2	156.3	118.7	93.6	56.3	42.6	34.1	27.7	23.9	18.9	15.6	8.37
1.60V/cell	393.8	296.1	244.2	165.0	123.8	96.9	58.2	43.9	35.1	28.6	24.5	19.1	15.8	8.42

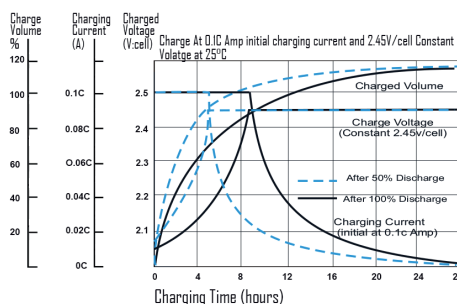
CONSTANT POWER DISCHARGE (WATTS/CELL) AT 25°C/77°F

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	409.8	348.4	307.7	223.3	178.5	145.4	90.7	70.9	57.5	46.9	41.1	33.6	28.0	15.9
1.80V/cell	516.6	414.7	358.2	260.3	205.9	161.9	98.3	75.9	61.1	50.2	44.0	35.6	29.7	16.1
1.75V/cell	560.6	448.6	382.2	268.9	212.7	168.7	101.7	77.1	62.4	51.4	45.1	36.2	30.0	16.2
1.70V/cell	602.5	475.4	399.4	278.8	220.6	173.6	105.5	79.0	63.9	52.6	46.0	36.7	30.2	16.5
1.65V/cell	645.6	502.2	422.3	292.8	225.2	178.8	108.1	82.2	65.9	54.0	46.9	37.2	30.8	16.7
1.60V/cell	689.0	530.7	445.2	306.0	232.6	183.7	111.1	84.3	67.7	55.5	47.8	37.5	31.1	16.8

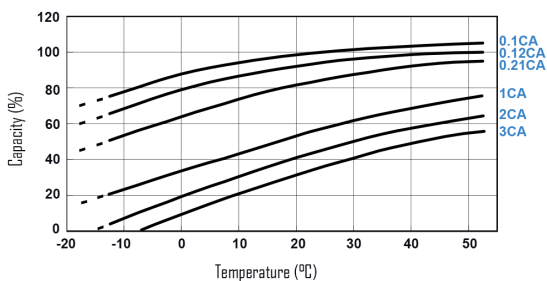
DISCHARGE CHARACTERISTICS



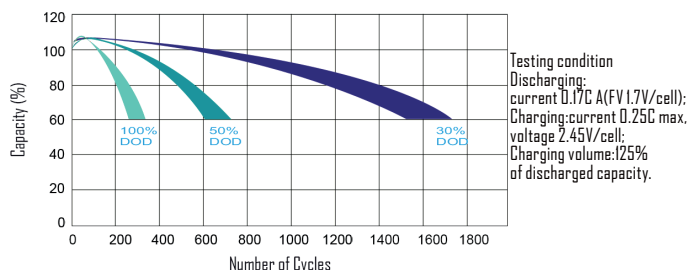
CHARGING CHARACTERISTICS (CYCLE USE)



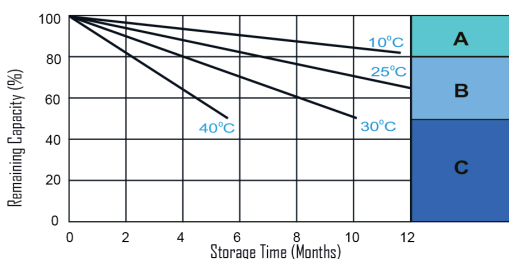
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



SELF DISCHARGE CHARACTERISTICS



- A** No supplementary charge required (carry out supplementary charge before use if 100% capacity is required)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell
 3. Charged for 8-10 hours at limited current 0.05CA
- C** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached