FPC12-120



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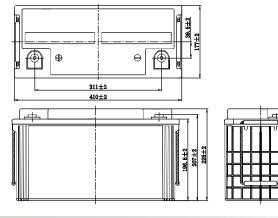




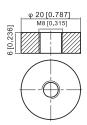
FPC Series are deep cycle batteries specially designed for long duration cyclic applications, ie with use in charge and then intensive discharge. With advanced AGM valve regulated technology and oversized negative plates, the FPC Series ensure very good cyclic performance with greater depth of discharge 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

LENGHT	408±3mm
WIDTH	177±2mm
TOTAL HEIGHT	225±3mm
WEIGHT	37 6kg (tolerance + 3%)







SPECIFICATION						
Nominal voltage	12V (6 cells)					
Nominal capacity	128.6Ah (20hr)					
Cycle life	Up to 400 cycles at 80% D00* (80% capacity - 20°C) Up to 500 cycles at 50% D00* (80% capacity - 20°C)					
Internal resistance	Approx 4.0m Ω					
Terminal	TII					
Max. discharge current	1300A (5 sec)					
Reference capacity	128.6Ah (20hr, 1.80V/cell, 25°C/77°F) 120.0Ah (10hr, 1.80V/cell, 25°C/77°F) 105.2Ah (5hr, 1.75V/cell, 25°C/77°F) 95.4Ah (3hr, 1.75V/cell, 25°C/77°F) 77.5Ah (1hr, 1.60V/cell, 25°C/77°F)					
Charge voltage						
Standby use voltage	13.5V ~ 13.8V 25°C/77°F					
Cycle use voltage	Temperature compensation: -20mV/°C/Cell 14.4V ~ 15.0V 25°C/77°F					
Cycle ase vallage	Temperature compensation: -30mV/°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 / 77°F ± 5°F					
Self discharge	Can be stored for up to 6 months at 25°C/77°F and then recharging is recommended. Monthly self-discharge ratio is less than 3% at 25°C/77°F					
Capacity affected by temp.	40°C/104°F 103% 25°C/77°F 100% 0°C/32°F 86%					
Container material	A.B.S. UL94-HB					
	*DOD = Depth of discharge					

APPLICATIONS







Golf Caddy





APPROVALS

Leisure

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



DATA SHEET



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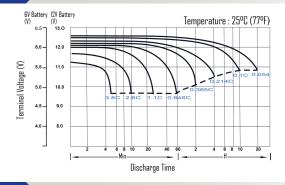
CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C/77°F

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	175.7	147.8	129.2	93.0	73.8	59.9	37.2	29.0	23.5	19.1	16.7	13.6	11.3	6.37
1.80V/cell	224.5	178.6	152.7	109.7	85.9	67.1	40.6	31.2	25.1	20.5	17.9	14.4	12.0	6.43
1.75V/cell	246.7	195.1	164.3	113.9	89.1	70.2	42.1	31.8	25.7	21.0	18.4	14.7	12.1	6.49
1.70V/cell	268.9	208.3	172.6	118.5	92.7	72.4	43.8	32.7	26.3	21.6	18.7	14.9	12.2	6.61
1.65V/cell	290.2	221.5	183.4	125.0	95.0	74.9	45.0	34.1	27.2	22.2	19.2	15.1	12.5	6.70
1.60V/cell	315.0	236.9	195.4	132.0	99.0	77.5	46.5	35.1	28.1	22.9	19.6	15.3	12.6	6.73

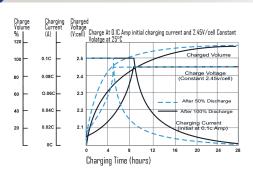
CONSTANT POWER DISCHARGE (WATTS/CELL) AT 25°C/77°F

F.V/Time	10min	15min	20min	30min	45min	1h	2 h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	327.8	278.7	246.2	178.6	142.8	116.3	72.5	56.7	46.0	37.5	32.9	26.9	22.4	12.8
1.80V/cell	413.3	331.7	286.6	208.2	164.8	129.5	78.7	60.7	48.9	40.2	35.2	28.5	23.8	12.9
1.75V/cell	448.5	358.9	305.7	215.1	170.2	135.0	81.4	61.7	49.9	41.1	36.1	29.0	24.0	13.0
1.70V/cell	482.0	380.3	319.5	223.0	176.4	138.9	84.4	63.2	51.1	42.1	36.8	29.3	24.2	13.2
1.65V/cell	516.5	401.8	337.8	234.2	180.2	143.1	86.5	65.8	52.8	43.2	37.5	29.8	24.7	13.3
1.60V/cell	551.2	424.6	356.2	244.8	186.1	147.0	88.9	67.4	54.2	44.4	38.3	30.0	24.9	13.4

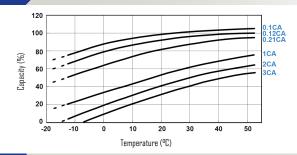
DISCHARGE CHARACTERISTICS



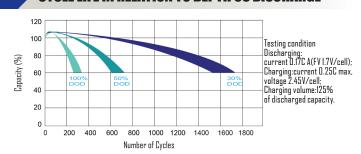
CHARGING CHARACTERISTICS (CYCLE USE)



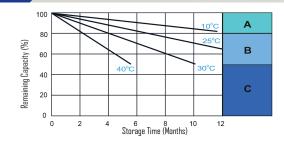
TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



CYCLE LIFE IN RELATION TO DEPTH OS DISCHARGE



SELF DISCHARGE CHARACTERISTICS



- No supplementary charge required (carry out supplementary charge before use if 100% capacity is required)
- 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 limted 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

