

## Basic Specifications

Voltage:	12 Volt
Capacity:	20 hour rate: 52.5Ah 10 hour rate: 50Ah 5 hour rate: 45.3Ah
Design life:	10-12 years
Appr. dimensions:	277x106x229mm (LxWxH) ( $\pm 2$ mm)
Terminal:	M6 insert
Container & lid:	Flame retardant ABS
Internal Resistance:	8m $\Omega$ (Fully charged)
Approximate weight:	17.3kg
Max charge current:	15A
Max discharge current:	500A (5 sec.)
Operating temp. range:	-20°C ~ +50°C
Self discharge:	lower than 3% per month

## Typical Applications

- Telecommunication devices
- Fire & burglar alarm systems
- Audio and video broadcast systems
- Remote measurement systems
- Evacuation systems
- Building automation
- Emergency lights
- UPS systems

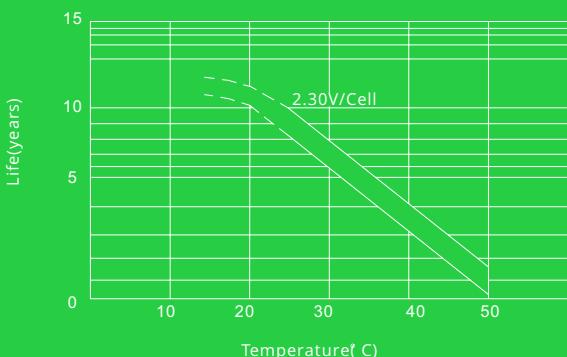
## Discharge data in Watts per battery (25°C)

	(V/cell)	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr
End Voltage	1.80V	147	127	93,4	61,7	27	17,9
	1.75V	158	135	97,9	63,5	27,4	18,1
	1.70V	168	143	102	65,3	27,9	18,2
	1.65V	179	151	107	67,1	28,2	18,4
	1.60V	190	159	111	69	28,5	18,5

## Discharge data in Amperes (25°C)

	(V/cell)	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr
End Voltage	1.80V	77	66	49	32,4	13,6	9	5
	1.75V	85	71,6	51,2	33,1	13,8	9,06	5,01
	1.70V	93	77,1	53,3	33,8	14,1	9,13	5,02
	1.65V	101	82,7	55,5	34,5	14,3	9,19	5,03
	1.60V	109	88,2	57,6	35,2	14,5	9,26	5,04

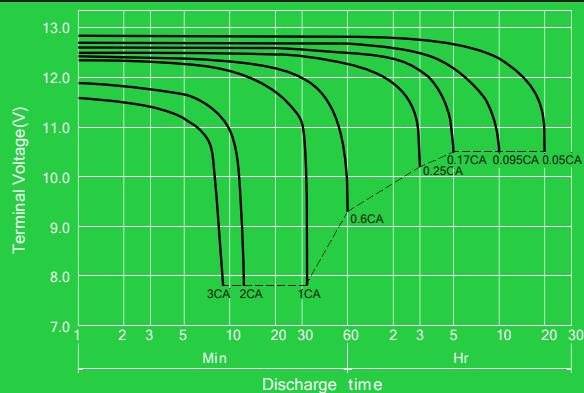
### Effect of Temperature on Long term Float Life



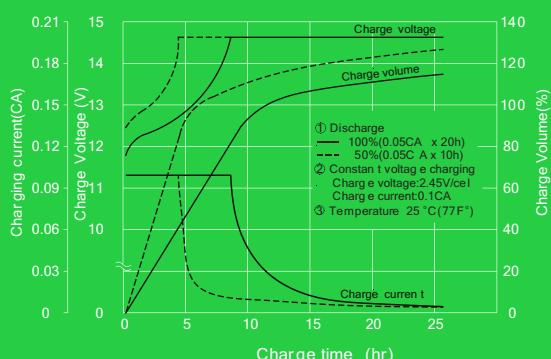
### Models available

Model pbq	Capacity in Ah	Dimensions (±2mm) (LxWxH1/H2)	Weight
pbq FA 50-12	50	277x106x229mm	17.3 kg
pbq FA 100-12	100	508x110x238mm	32.5 kg
pbq FA 105-12	105	395x110x293mm	35 kg
pbq FA 125-12	125	436x108x317mm	40 kg
pbq FA 140-12	140	552x110x295mm	49 kg
pbq FA 155-12	155	551x110x316mm	51.5 kg
pbq FA 180-12	180	546x125x323mm	58.5 kg

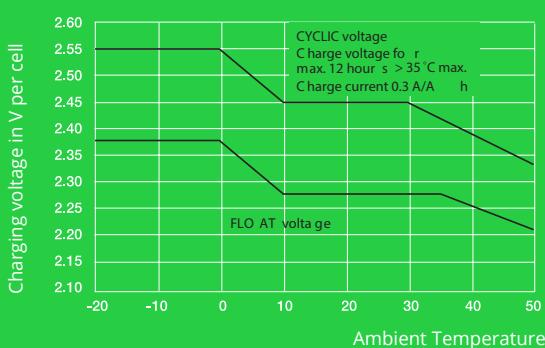
### Discharge Time VS. Discharge Current (25°C)



### Battery Charging Characteristics



### Charging voltage and temperature



### Certificates



### Features

- Absorbent Glassmat Technology
- Low self discharge
- Classified as non-spillable and Non Dangerous goods by IATA, FAA, ADR, IMDG
- Can be discharged or stored in any position without leakage
- Cannot be charged while the terminal is downward.