

Typical Applications For Camden Lantern Batteries

- Communications/radio equipment
- Emergency lighting systems
- Marine equipment
- Portable lighting
- Solar powered systems
- Toys and models
- Lanterns



Technical Features (Battery)

- Absorbent Glass Matt (AGM) separator construction
- Acid paste contained in AGM giving non spillable, maintenance free construction
- Leak proof
- Can be used in any position
- No need for forced venting
- Advanced gas recombination gives low gassing and no need to add water
- Low self discharge to ensure long storage life
- Excellent recovery from deep discharge
- More than 1000 charge/discharge cycles (depending on depth of discharge)
- Low self discharge rate typically less than 3% per month @ 25°C
- Up to 5 years float service
- Low pressure relief valve opens for gassing and seals to prevent oxygen ingress
- Supplied with fitted terminal cover to insulate and protect in transit

Specification

Part No	Length mm	Width mm	Height mm	Height over terminal	Weight Kg
BEL060040S (Battery)	66.8	66.8	97.5	112	0.85
BEL06/PS (Charger)	170	154	125	-	1.0

Features (Charger)

- Capable to insert and charge 1 or 2 BEL060040S batteries
- Over charge protection circuit
- Red LED power indicator
- Green LED charging indicator

Operating Instructions (Charger)

- Open the top of the charger
- Insert 1 or 2 BEL060040S batteries
- Close top cover and lock
- Pull out the power cord and plug into the wall socket with the appropriate electrical rating
- The red LED lights up showing the unit is connected to the AC mains
- The green LED lights up showing the battery is being charged
- When the battery capacity is up to 80% the green LED will be off
- The batteries are now ready for use

PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
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HOLDERS

BATTERIES

LED's

MINIATURE
SWITCHES

INTERFACE
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ENCLOSURES

IC & PLCC
SOCKETS

RELAY
BASES

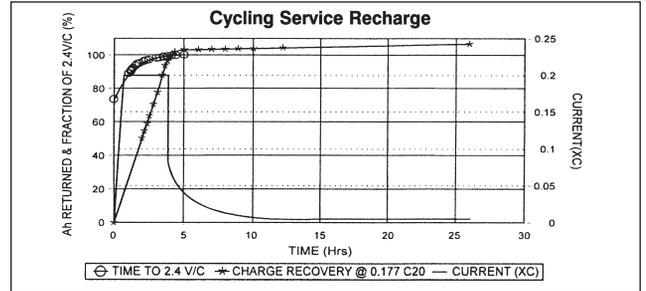
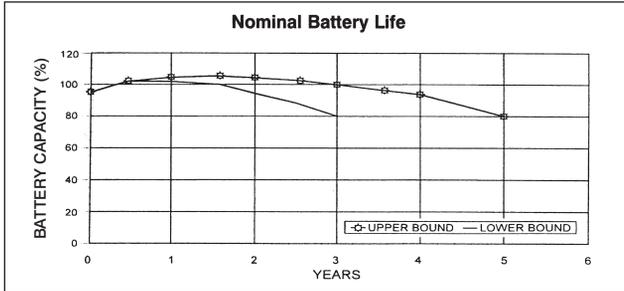
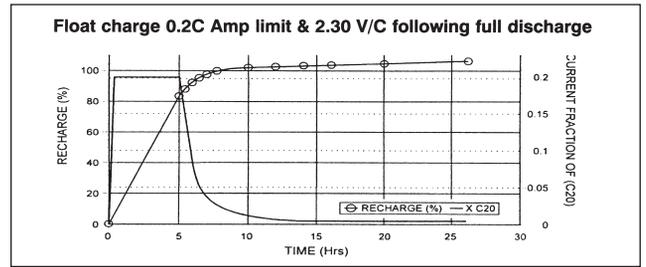
CONTROL
PRODUCTS

PCB TERMINAL BLOCKS
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Charging

Constant Voltage charging is recommended for valve regulated lead acid batteries under the following conditions:

- Float charge: 2.25 – 2.30 volts/cell at 25°C
- Cycle charge: 2.40 – 2.45 volts/cell at 25°C
- Initial current should not exceed 0.2C
- Gassing will only occur when the cell voltage exceeds 2.35 volt/cell (90% of recharge).



Selector Chart for Camden Batteries

Part Number	Nominal Voltage (V)	Capacity (Ah)	Internal resistance (mΩ)	Length (mm)	Width (mm)	Height (mm)	Height Over Terminals (mm)	Weight (Kg)	Terminal
BEL060013	6	1.3	50	97	24	52	58	0.31	A
BEL060032	6	3.2	30	134	35	61	67	0.66	A
BEL060040S	6	4	28	67	67	97.5	112	0.85	Spring
BEL060045	6	4.5	25	70	47	101	107	0.75	A
BEL060072	6	7.2	15	151	34	94	100	1.2	A
BEL060100	6	10	12	151	50	94	100	1.6	A
BEL060012	6	12	11	151	50	94	100	1.85	A
BEL120013	12	1.3	95	97	43	52	58	0.61	A
BEL120022	12	2.2	60	178	35	61	67	0.99	A
BEL120033	12	3.3	50	134	67	61	67	1.3	A
BEL120050	12	5	33	90	70	101	107	1.65	A
BEL120060	12	6	32	90	70	101	107	1.65	A
BEL120072	12	7.2	25	151	65	94	100	2.35	A
BEL120120	12	12	19	151	98	95	101	3.7	B
BEL120180	12	18	17	181	77	167	167	5.5	C
BEL120260	12	26	12	165	176	127	127	8.4	C
BEL120330	12	33	10	195	130	159	180	10.2	C
BEL120440	12	44	8	197	165	170	170	13.7	C
BEL120550	12	55	5.8	229	138	208	230	19.5	D
BEL120700	12	70	5.5	260	168	211	233	24	D
BEL120900	12	90	5.5	306	169	211	233	28	D
BEL121000	12	100	4.5	330	171	214	224	32	E
BEL121500	12	150	3.5	485	172	240	242	47	E
BEL122000	12	200	3	522	238	218	238	65	E
BEL122500	12	250	2.6	521	269	220	242	78	E

Terminal A = 4.8mm spade

Terminal B = 6.3mm spade

Terminal C = M5 insert and bolt

Terminal D = M6 insert and bolt

Terminal E = M8 insert and bolt



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Because we operate a constant improvement policy, our products are subject to change without notice.

