

BATTERIES

Overview of CamdenBoss Batteries

CamdenBoss offers a range of sealed rechargeable 6V and 12V Absorbent Glass Matt (BEL) and Gelled Electrolyte batteries (BEG), with specialist batteries constructed for Electric Vehicles (BEV) and Solar (BES) applications, accompanied by Lantern Batteries and Charger, Battery Balancer and Connectors.

Typical Applications for CamdenBoss batteries

BEL

Emergency lighting
Computer backup
Marine equipment
Vending machines
Remote telemetry
Access control
Uninterruptible power supplies
Rehabilitation equipment
Control equipment
Cathodic protection
Navigation aids

BEV

Forklifts
Golf carts
Electric Motorcycles
Power tools
Trolley motors
Floor sweepers
Mobility Scooters
Wheelchairs

BEG

Cycling/float service
Residential
Refrigeration
Telecommunications
Wind power
Engine starting
Water pumping
Road side cabinets
Portable medical equipment

BES

Photovoltaic power
Power plants in remote villages
Transportation signal installations
Telecommunication services
Cellular transmission stations
Street and garden lighting
Hybrid power supplies

Battery Construction

Absorbent Glass Matt (BEL) and Microporous Duroplastic (BEG) separator construction.

Acid paste contained in BEL batteries and Gelled Electrolyte in BEG batteries provide a non-spillable, leak proof and maintenance free construction.

Low self-discharge rate typically less than 3% per month, ensures long storage life.

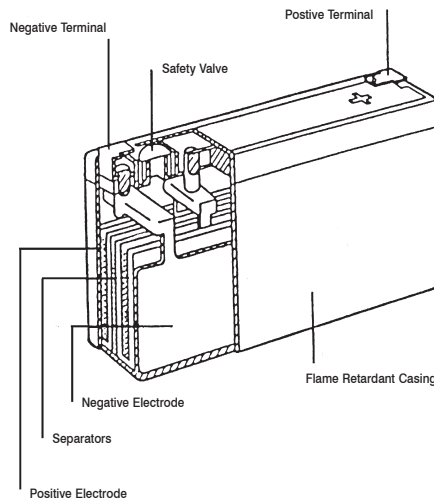
No need for forced venting, low pressure relief valves for gassing and seals to prevent oxygen ingress.

Supplied with fitted terminal covers to insulate and protect in transit.

Batteries must be stored in a charged condition. Minimum cell voltage in storage (self-discharging) 2.0 Volt/Cell.

During storage batteries must have top-up charge at given intervals and be stored away from heat sources and direct sunlight.

STORAGE TEMPERATURE	CHARGE INTERVAL
less than 20°	typically 9 months
20° - 30°	typically 6 months
30° - 40°C	typically 3 months



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CAMDENBOSS
ELECTRONICS & ENCLOSURES

BATTERIES

Absorbent Glass Mat (AGM) Batteries

Robust sealed non-spillable maintenance free valve regulated recombinant batteries. Ideal for starting, stationary, deep-cycle and high current, high power applications.

- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- Low self-discharge, long storage life
- Increased durability and deep cycle ability
- Valve regulated to 2.5psi max
- Non-hazardous
- Thermal stability, vibration and shock-resistant
- Threaded insert or faston terminals as standard
- Flag, automotive, J type, J type adapter terminals to order
- Lower cost when compared to Gelled Electrolyte batteries
- Superior performance for shorter duration/higher current discharges

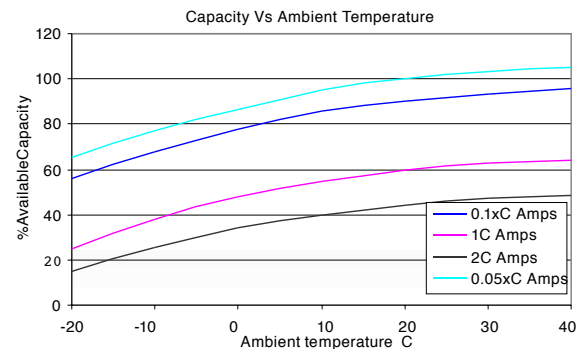
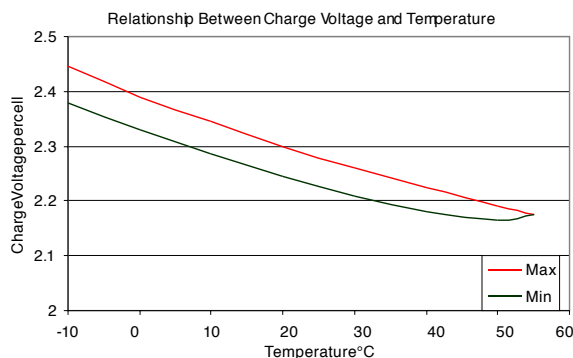
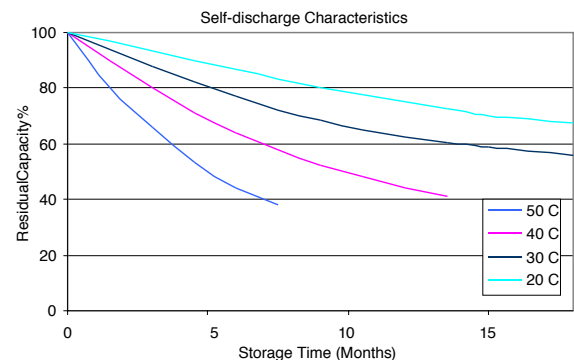
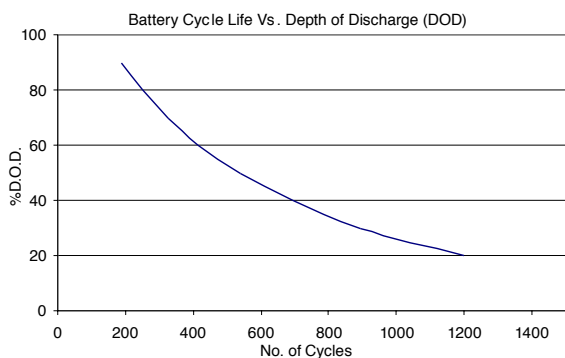


SPECIFICATION

Nominal Voltage	BEL060013-BEL060120	6V
	BEL120180-BEL122300	12V
Battery life	BEL060013-BEL060120	5 Years
	BEL120180-BEL122300	12 Years
Operating temperature	BEL060013-BEL060120	-20°C to 50°C
	BEL120180-BEL122300	-10°C to 45°C
Grid alloy		Calcium/Tin lead alloy
Plates		Flat pasted
Separator		Absorbent Glass Mat
Active material		High purity lead
Case and cover		ABS (V0 on request)
Charge Voltage		Float 2.27-2.30 VPC @ 20°C
		Cycling 2.4 VPC @ 20°C
		Max 2.4 VPC
		Max ripple 5% Charge (Amp)
Electrolyte		Sulphuric acid
Venting valve		EPDM Rubber
		release pressure at 1.5 to 2 psi resealing at 1psi
Terminals		Epoxy sealed
Torque settings		5-7Nm

Typical Applications:

- Cycling/Float Service
- Telecommunications
- Solar and wind
- Emergency lighting
- Computer backup
- Marine equipment
- Power tools
- Vending machines
- Power supplies
- Remote telemetry
- Access control
- Medical equipment
- Control equipment
- Cathodic protection
- Navigation aids
- Cellular Radio Stations
- Security systems

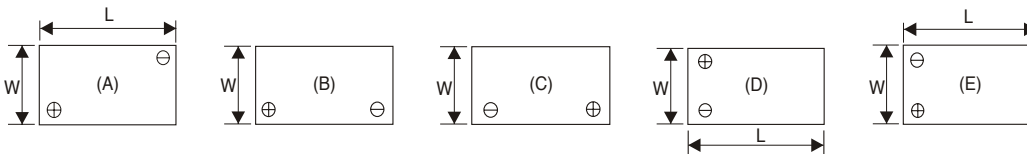


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	NOMINAL VOLTAGE	NOMINAL CAPACITY	LENGTH	WIDTH	HEIGHT	WEIGHT	TERMINAL DETAILS	INTERNAL RESISTANCE	CHARGE CURRENT MAX	CCA AT 0°C	SHORT CIRCUIT	QTY PER BOX
BEL060013	6V	1.3Ah	98mm	25mm	52mm	0.32kg	B - T1	70Ω	0.35A	N/A	56A	40
BEL060032	6V	3.2Ah	134mm	34mm	60mm	0.7kg	B - T1	30Ω	0.8A	N/A	128A	20
BEL060045	6V	4.5Ah	70mm	48mm	101mm	0.82kg	A - T1	20Ω	1.1A	N/A	176A	20
BEL060072	6V	7.2Ah	150mm	34mm	94mm	1.27kg	B - T1	13Ω	1.8A	N/A	288A	10
BEL060100	6V	10Ah	151mm	50mm	93.5mm	1.79kg	B - T1	10Ω	2.5A	N/A	400A	10
BEL060120	6V	12Ah	151mm	50mm	93.5mm	2kg	B - T2	10Ω	3A	N/A	480A	10
BEL120013	12V	1.3Ah	96.5mm	45mm	53mm	0.57kg	E - T1	130Ω	0.4A	N/A	64A	15
BEL120022	12V	2.2Ah	177.5mm	34mm	60mm	0.96kg	B - T1	90Ω	0.6A	N/A	96A	20
BEL120033	12V	3.3Ah	133.5mm	67mm	61mm	1.39kg	C - T1	60Ω	0.9A	N/A	144A	10
BEL120050	12V	5.7Ah	90mm	70mm	101mm	1.84kg	D - T1	40Ω	1.3A	N/A	208A	10
BEL120060	12V	6Ah	150mm	97mm	98mm	3.93kg	D - T2	20Ω	3A	N/A	480A	4
BEL120072	12V	7Ah	151mm	65mm	94mm	2.3kg	D - T1	28Ω	1.7A	N/A	272A	8
BEL120120	12V	12Ah	150mm	97mm	98mm	3.93kg	D - T2	20Ω	3A	N/A	480A	4
BEL120180	12V	17Ah	181mm	76mm	167mm	5.45kg	C - M5	11Ω	4.5A	144A	732A	2
BEL120260	12V	24Ah	178mm	168mm	124mm	8kg	C - M5	6.5Ω	6.5A	228A	900A	1
BEL120330	12V	33Ah	195mm	130mm	160mm	10.4kg	B - M6	7Ω	8A	258A	1100A	1
BEL120440	12V	42Ah	198mm	167mm	157mm	13.3kg	C - M6	6.2Ω	11A	345A	1400A	1
BEL120550	12V	55Ah	229mm	138mm	213mm	17kg	B - M6	6.5Ω	14A	466A	1700A	1
BEL120700	12V	68Ah	260mm	168mm	211mm	24.3kg	B - M6	5Ω	18A	557A	2100A	1
BEL120800	12V	78Ah	260mm	168mm	211mm	25.8kg	B - M6	5Ω	20A	664A	2400A	1
BEL120900	12V	89Ah	306mm	168mm	211mm	30.1kg	B - M6	4Ω	22A	680A	2650A	1
BEL121000	12V	97Ah	306mm	168mm	211mm	28.8kg	B - M6	4Ω	25A	751A	2900A	1
BEL121100	12V	109Ah	329mm	173mm	209mm	32.5kg	B - M6	4Ω	27A	804A	3000A	1
BEL121200	12V	120Ah	408mm	176mm	227mm	35.8kg	B - M6	3Ω	30A	877A	3300A	1
BEL121350	12V	141Ah	340mm	173mm	283mm	40.6kg	B - M6	2.73Ω	35A	965A	3750A	1
BEL121500	12V	150Ah	482mm	170mm	242mm	44kg	B - M6	2.5Ω	38A	1014A	4200A	1
BEL121600	12V	167Ah	530mm	209mm	214mm	55kg	E - M6	2Ω	40A	1021A	4700A	1
BEL122000	12V	204Ah	520mm	240mm	220mm	60.9kg	E - M8	<2Ω	50A	1027A	5400A	1
BEL122300	12V	230Ah	521mm	269mm	203mm	74kg	E - M8	<2Ω	57A	1057A	5900A	1

T1 = Faston Tab No.187 (4.8m)

T2 = Faston Tab No.250 (6.3mm)



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