BATTERIES

Solar Gel Batteries

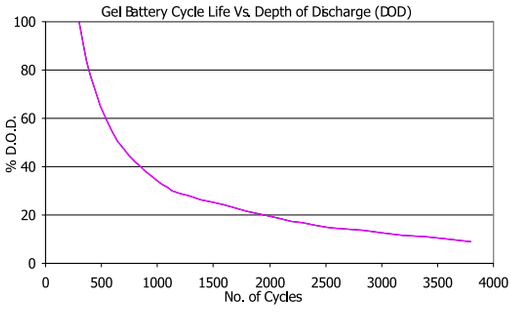
Sealed non-spillable maintanence free valve regulated recombinant solar batteries. Specially constructed for demanding applications subjected to extreme termperatures, unpredictable charging, daily cycling & partial charge and discharge

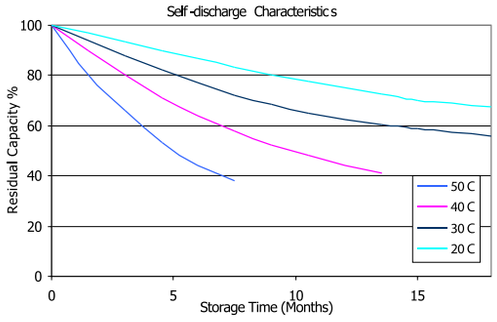
- Utilises the latest battery technology
- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- Low self-discharge, long storage life
- Gelled thixotropic electrolyte
- Increased durability and deep cycle ability
- Valve regulated to 2.5psi max
- No equalization charge necessary
- Zero stratification
- Vibration and shock-resistant
- Good tolerance to unpredictable charging regimes
- Wide range of operating temperatures, resistant to freezing
- Batteries have terminal options to meet the multitude of connection requirements.
- Total height does not allow for terminal bolt when screwed into battery terminals (Relevant for screw terminal batteries)

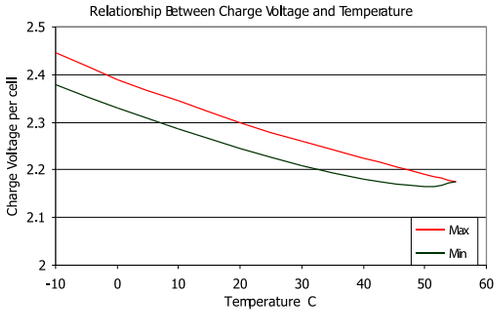
Typical Applications:

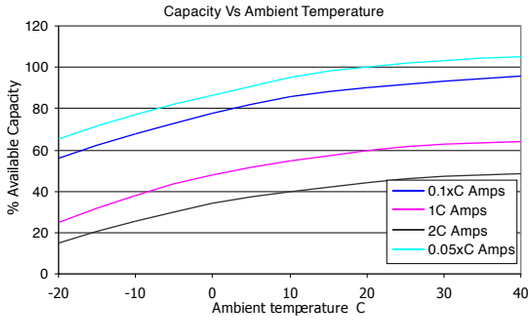
- Photovoltaic power supply of:
- Power plants in remote villages
- Signal Installations in air, sea, road and railway transport
- Radio relay stations for telecommunications
- Cellular roadside and roof top transmission/repeater stations
- Street and garden lighting
- Hybrid power supplies

SPECIFICATION		
Nominal Voltage	*12 Volts*	
Battery life	*BES120075 - BES120120*	*5 Years*
	All others	*12 years*
Operating temperature	*-20°C to 50°C*	
Grid alloy	*Calcium/Tin lead alloy*	
Plates	*Flat Pasted*	
Separator	*Gel-Microporous Duroplastic*	
Active material	*Very high purity lead*	
Case and cover	*ABS (VO on request)*	
Charge Voltage	*Cycling 2.4 VPC @20°C*	
	Max 2.4 VPC	
Electrolyte	*Sulphuric Acid*	
Venting valve	*EPDM Rubber*	
	1.5 to 2psi (10.5 - 14 Kpa)	
	release pressure.	
	Resealing at 1 psi (7 Kpa)	
Terminals	*Epoxy Sealed*	
Torque settings	*5-7Nm*	







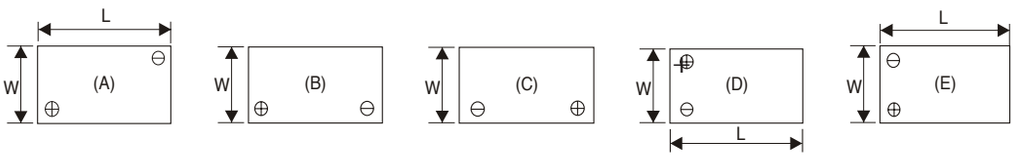


BATTERIES

	NOMINAL VOLTAGE	NOMINAL CAPACITY	LENGTH	WIDTH	HEIGHT	WEIGHT	TERMINAL DETAILS	INTERNAL RESISTANCE	CHARGE CURRENT MAX	SHORT CIRCUIT	QTY PER BOX
BES120075	12V	7.4Ah	150mm	63mm	99mm	2.5kg	D-T1	28mΩ	1.5A	275A	8
BES120120	12V	11.4Ah	151mm	98mm	95mm	3.67kg	D-T1/T2	17mΩ	4.8A	600A	4
BES120180	12V	16.8Ah	181mm	77mm	167mm	5.5kg	M5	16mΩ	6.8A	850A	2
BES120260	12V	26Ah	165mm	174mm	125mm	8.1kg	M5	9.5mΩ	6.5A	900A	1
BES120330A	12V	33Ah	195mm	130mm	155mm	11.0kg	M6	10mΩ	9.9A	850A	1
BES120450	12V	41.6Ah	197mm	165mm	170mm	14.6kg	M6	7.5mΩ	12.5A	1050A	1
BES120550	12V	51.7Ah	229mm	138mm	208mm	18.5kg	M6	5.8mΩ	15.5A	1400A	1
BES120750	12V	74.1Ah	258mm	166mm	206mm	24kg	M6	5.7mΩ	22.5A	1800A	1
BES121000	12V	90Ah	306mm	169mm	210mm	29kg	M8	4mΩ	22A	2650A	1
BES121100	12V	101Ah	327mm	171mm	206mm	30kg	M6	5mΩ	25A	2900A	1
BES121200	12V	110Ah	409mm	177mm	225mm	36.0kg	M6	4mΩ	27A	3000A	1
BES121500	12V	150Ah	482mm	170mm	240mm	44.8kg	M8	2mΩ	38A	4200A	1
BES121600	12V	151Ah	530mm	209mm	214mm	53.7kg	M8	2mΩ	40A	4700A	1

T1 = Faston Tab No.187 (4.8mm)

NB: Total height does not allow for terminal bolt when screwed into battery terminals (Relevant for screw terminal batteries)



Note:
These batteries should not be discharged lower than 10.5 volts (12 volt battery) and 5.2 volts (6 volt battery).
If batteries are discharged lower than these voltages permanent damage may be caused.
Batteries not in use should be regularly re charged to ensure they stay above the minimum discharged voltage.