

BATTERIES

Solar Gel Batteries

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

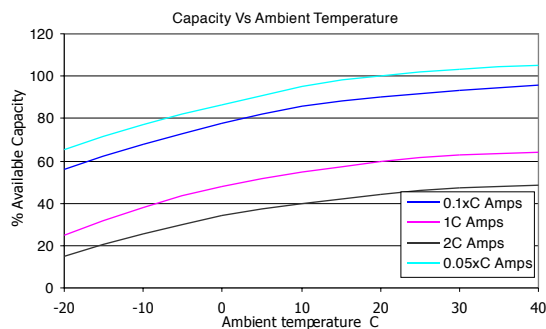
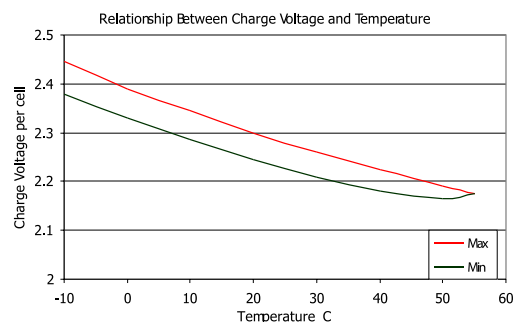
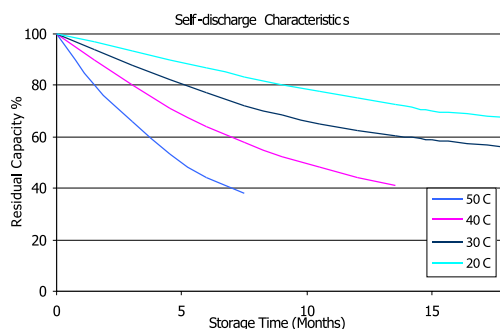
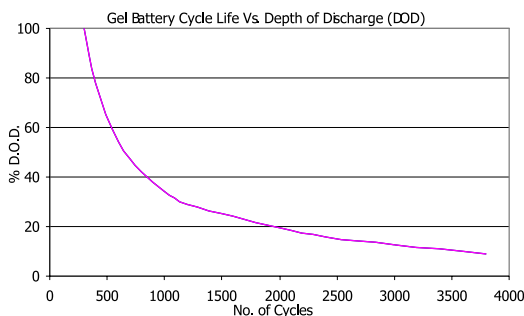
- Utilises the latest battery technology
- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- Low self-discharge, long storage life
- Gelled thixotropic electrolyte
- Increased durability and deep cycle ability
- Valve regulated to 2.5psi max
- No equalization 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:
 - Cellular roadside and roof top transmission/repeater stations
 - Street and garden lighting
 - Hybrid power supplies
- Power plants of remote villages
- Signal Installations of air, sea, road and railway transport
- Radio relay stations for telecommunication

SPECIFICATION

Nominal Voltage	6 & 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	



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	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
*BES120330	12V	31.1Ah	196mm	131mm	160mm	10.3kg	M6	8.5mΩ	8A	1100A	1
BES120330A	12V	33Ah	195mm	130mm	155mm	11.0kg	M6	10mΩ	9.9A	850A	1
*BES120440	12V	39Ah	198mm	167mm	157mm	13.0kg	M6	7.5mΩ	11A	1400A	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
*BES120700	12V	61Ah	349mm	168mm	175mm	21.0kg	M6	6.5mΩ	14A	1750A	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)

