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BATTERY ENERGY POWER SOLUTIONS

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SunGEL

PRODUCT RANGE

AUSTRALIAN DESIGNED ENERGY STORAGE
FOR UNFORGIVING HIGH TEMPERATURE
SOLAR APPLICATIONS



battery energy
power solution to tomorrow's world



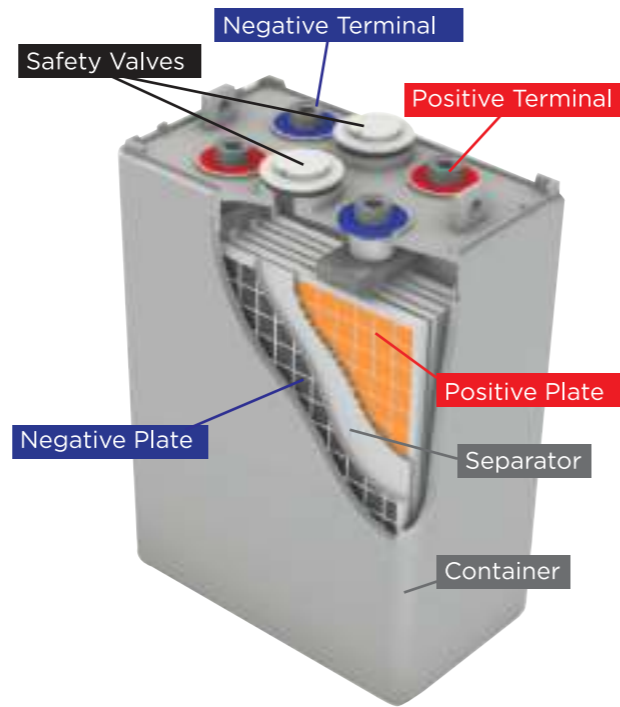
ADVANCED ULTRAGEL | THICK PLATE ADVANCED CARBON TECHNOLOGY ROBUST | TEMPERATURE TOLERANT | LONG SERVICE LIFE

FOR SOLAR AND CYCLING APPLICATIONS

Battery Energy has been supplying proven and reliable battery storage systems on and off grid for 30 years.

Battery Energy's Thick Plate Advanced Carbon Technology is industry leading and will continue to be installed in high temperature and cycling applications with Australia's most innovative companies. When developing our technology in conjunction with the CSIRO there was a strong focus on delivering a product with superior cycling and life expectancies.

The result is a product with unique chemical and molecular characteristics which, along with advanced production method's differentiate it from other GEL batteries in the marketplace. These superior life characteristics apply to both the battery's cycling performance and its ability to combat varying extreme environmental conditions. For the highest level of reliability Battery Energy has the capability to design and customise products to meet increasing demands in the supply of Energy Storage for Solar, Communications, Rail, Oil & Gas, Power Generation & Transmission, UPS and Mining.



BENEFITS

- Developed by Battery Energy with the collaboration of CSIRO
- Extensive R&D for high performance, reliability & long life
- Designed to endure extreme and harsh conditions while performing exceptionally
- Ideal solution for all sites in remote and difficult access regions

TECH SPECS

DESIGN LIFE	20 YEARS* (*12V products are 16 year design life)
PLATE SEPARATOR	MICRO POROUS PVC WITH FIBERGLASS
SAFETY VENT	SELF-RESEALING 150 mbar
SELF-DISCHARGE	2.5% PER MONTH
FLOAT VOLTAGE	2.25-2.275 VOLTS per CELL
BOOST CHARGE	2.40-2.45 VOLTS per CELL
EQUALIZATION CHARGE	2.40-2.50 VOLTS per CELL
SEALS	O-RING SEAL WITH LONG-LIFE ADHESIVE
TERMINALS	M8/M10 FEMALE INSERT
CASING	Flame-retardant UL94V-O & BS6334 FVO
COMPLIANCE	AS 4029.2, AS 4086.1, IEC 60896 21&22, IEC 896.2

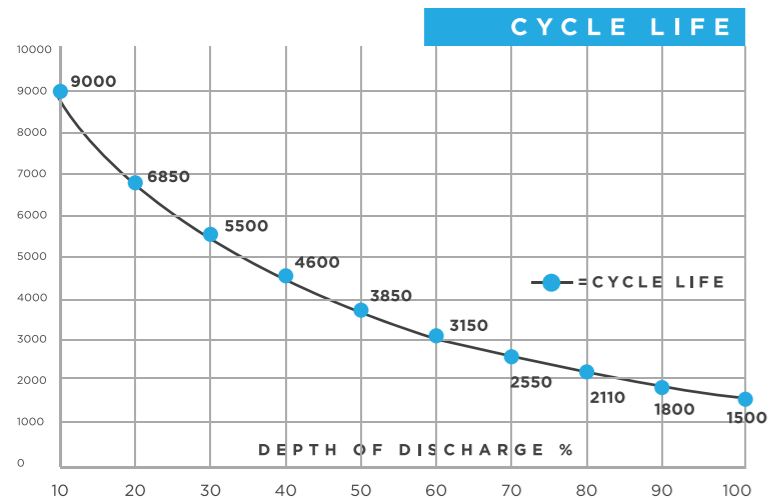
Established in 1987, Battery Energy commenced as a specialist Battery Development & Manufacturing Company. From the outset the objective was to develop a maintenance free GEL battery technology which would substantially increase battery life in harsh climatic conditions.

Over the years Battery Energy's technology has been significantly enhanced through ongoing development and improved proprietary manufacturing techniques. We offer and design a complete range of industrial batteries, with the technical expertise and flexibility to adapt existing products to suit a wide range of client needs, focusing on optimizing clients investments while delivering a world class solution.

Battery Energy is an award winning market leader in energy storage and is the only industrial GEL battery manufacturer in Australia.

With an integrated manufacturing and support facility in Sydney and accompanied by increased capacity through its dual manufacturing capability in the South of China.

MODEL	NOMINAL VOLTAGE	C/120 to 1.80Vpc	C/10 to 1.80Vpc	LENGTH	WIDTH	HEIGHT	WEIGHT (kg)
6SG200	6	210	140	276	184	265	32
2SG250	2	262	175	184	109	265	13.5
4SG320	4	338	269	276	184	265	39
2SG450	2	472	315	184	197	265	23
2SG470	2	478	303	124	206	497	25
2SG595	2	597	353	124	206	497	29.5
2SG650	2	682	455	184	276	265	33
2SG710	2	716	455	145	206	497	34
2SG820	2	836	531	166	206	497	38
2SG875	2	874	555	145	206	680	49
2SG1000	2	1048	666	145	206	680	54
2SG1200	2	1223	777	210	191	680	64
2SG1400	2	1398	888	210	191	680	71
2SG2000	2	2097	1332	210	275	680	104
12SG133FTG	12	135	109	394	125	287	37.8
12SG200FTG	12	205	166	558	125	317	58.5



KEY FEATURES

- Superior life under varying extreme climatic conditions
- Specifically designed corrosion resistant alloys
- High performance, long life active material, carbons and robust thick plate technology
- Hi-tech gel formulation to prevent electrolyte 'dryout'
- Excellent recovery from deep discharge
- 100% cell testing prior to dispatch to ensure batteries are fully charged & prepared for reliable performance
- Built to last through superior design, high-quality materials and pride of workmanship