



ECOGEL Battery For Renewable

Energy Sources



Valve Regulated Lead Acid rechargeable batteries are designed to provide outstanding performance in withstanding overcharge and/or over discharge. Furthermore the batteries are also resistant to vibration and shock



G - 70 - 100 - 130 - 165



G - 190 - 220- 250 - 280





Applicable Operating Temperature Range: -20°C to +50°C Ideal Operating Temperature Range: +20°C to +35°C Storage Time From A Fully Charged Condition: 24 months at 20°C

Features

- > Valve regulated lead acid (VRLA)
- Micro millimeter SiO₂ and H₂SO₄ technology for efficient gas recombination of up to 99% and free of electrolyte maintenance or water adding
- Not restricted for air transport complies with IATA/ICAO Special provision A67
- > German technology
- > UL- recognized component
- Computer designed lead, calcium tin alloy grid for high power density
- > Long service life, float or cyclic applications
- > Maintenance free operation
- > Low self discharge
- > Unique performance against high temperature
- > Spill-proof and leak-proof
- > Flame-arresting one-way pressure relief vent for safety and long life



- * Specifications could be subject to change without any prior notice.
- * ECO//SUN is not responsible for any print errors
- *This version replaces all previous ones

Applications

- > Solar power
- > Wind power
- > Water pumping
- > Lighting
- > Houses
- > Backup systems

Specifications

- > Positive plate
- > Negative plate
- > Box
- > Cover
- > Safety valve
- > Terminal
- > Separator
- > Electrolyte
- Lead Reinforced ABS Reinforced ABS Rubber Copper Fiberglass

Lead dioxide

Colloidal Silicon

V18.0521

Life characteristics of cyclic use



Charge characteristics curve of cyclic use



Storage characteristics



Discharge characteristics curve



Capacity Factors At Different Temperatures

The solar Gel battery

excels in cycling

applications.

*Dependent upon

proper charging and

ambient temperatures.

Temperature	-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Factor	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
Discharge Amps (25°C)										

Discharge Amps (25°C)

Туре	Volt	C10 Hr	C20 Hr	C100 Hr	Approx	Dimensions in (mm)			
	(V)				Wt. (Kg)	Lenght	Width	Height	
G - 55 - 12	12	45	49	55	13.5	196	165	170	
G - 70 - 12	12	55	59	70	16.1	229	139	209	
G -100 -12	12	79	86	100	23.2	260	168	208	
G -130 -12	12	110	118	130	31.4	406	173	209	
G -165 -12	12	145	156	165	41.8	482	171	240	
G -190 -12	12	160	173	190	50.0	532	207	215	
G -220 -12	12	180	195	220	57.5	523	240	219	
G -250 -12	12	210	221	250	60.0	522	240	223	
G -280 -12	12	230	246	280	70.0	520	269	220	

IMPORTANT CHARGING INSTRUCTIONS

WARRANTY VOID IF OPENED OR IMPROPERLY CHARGED. Do not install in an air-tight condition. Constant under or overcharging will damage any battery and shorten its service life. Use a good constant potential, voltage-regulated charger or voltage regulated solar controller. For 12 volts monobloc, charge to at least 13.6 volts but no more than 14.4 volts at 25°C. The open circuit voltage of a fully charged 12 volts monobloc is 12.8 volts at 25°C. However, during the battery charge, the building internal pressure (voltage) causes resistance to the charge. Therefore, the charging voltage must be higher (at least 13.8 volts) to overcome this internal pressure (voltage) during charging. For longer life avoid deep discharges and large charging currents. Do not connect more than three strings, for larger capacities use 2V batteries.

*All mentioned values are average values (Tolerance $\pm 5\%$).

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