



## Battery Range Summary

Premium performance Genesis® EP batteries are manufactured with Thin Plate Pure Lead (TPPL) technology, packing more power into a smaller footprint.

### Features & Benefits

- Capacity range 13 - 72Ah
- Outstanding energy density
- Very long float life
- High stable voltage delivery
- Wide temperature range
- Rugged construction
- Fast charge acceptance capability
- Long storage life for maximum flexibility in project deployment

Genesis EP batteries are found in applications as diverse as electronics, medical equipment, telecommunications, renewable energy, computer backup and Uninterruptible Power Supply (UPS).

In addition to its superior performance characteristics, the Genesis EP battery excels in physically demanding installations such as high temperature and high vibration, as well as safe for human environments such as offices and hospitals.

The EP battery also offers deep cycling capabilities, fast recharge abilities and a non-spillable design which allows mounting in any position except inverted.

## Construction

- Pure lead-tin Valve Regulated Lead Acid (VRLA) Absorbent Glass Mat (AGM) battery
- Containers and lids - UL94 V-0 rated flame retardant polymer material, highly resistant to shock and vibration
- Superior quality microporous glass mat separators with high absorption and stability
- High grade dilute sulphuric acid fully absorbed into separator material to prevent spillage in case of accidental damage
- Self-regulating pressure relief valves - prevent ingress of atmospheric oxygen

## Installation & Operation

- Monoblocs and cells can be installed in cabinets or on stands close to the point of use. A separate battery room is not necessary
- Products can be mounted in any orientation except inverted.
- Wide operating temperature range: -40°C to +80°C with optional metal jacket
- Up to 24 months shelf life at 20°C
- Cycle life up to 400 cycles at 80% depth of discharge
- Low maintenance: no water addition required

## Standards

- Batteries must be installed in accordance with the IEC 62485-2 standard and national regulations
- Classified as non-spillable battery and approved as non-hazardous cargo for land, sea and air transportation in accordance with the requirements of ADR / RID, IMDG and IATA respectively
- UL recognised component (UL File No. MH12544)
- The management systems governing the manufacture of Genesis EP are ISO 9001 and ISO 14001 certified

## General Specifications

Battery Type	Nominal Voltage (V)	Nominal Capacity (Ah)		Nominal Dimensions (mm)			Typical Weight (kg)	Short Circuit Current (A) <sup>(1)</sup>	Internal Resistance (mΩ) <sup>(1)</sup>	Terminals
		C <sub>10</sub> rate to 1.80Vpc @ 20°C	C <sub>5</sub> rate to 1.75Vpc @ 25°C	Length	Width	Overall Height				
G13EP	12	13	13	175	83	129	4.9	600	21.4	M6 Female
G16EP	12	16	17	181	76	167	6.1	675	19.1	M6 Female
G26EP	12	28	28	166	175	125	10.1	1150	12.3	M6 Female
G42EP	12	42	44	196	165	170	14.9	1480	8.8	M6 Female
G70EP	12	72	72	329	166	174	24.3	2100	6.1	M6 Female

Note: (1) Figures obtained via IEC method.

## Constant Current Discharge Performance

Constant current discharge rate, amps to 10.02V at 77°F (25°C)

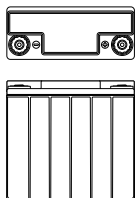
Battery Type	Minutes			Hours				
	10	15	30	1	5	8	10	20
G13EP	41.4	30.8	17.9	10.3	2.5	1.6	1.3	0.7
G16EP	49.3	36.6	21.5	12.6	3.1	2.1	1.7	0.9
G26EP	87.6	65.4	38.3	22.1	5.3	3.5	2.9	1.5
G42EP	118.9	90.3	54.4	32.1	8.0	5.4	4.4	2.3
G70EP	218.5	165.7	98.5	57.0	13.6	9.0	7.3	3.9

## Constant Power Discharge Performance

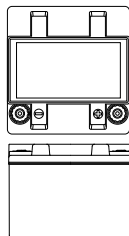
Constant power discharge rate, watts per battery to 10.02V at 77°F (25°C)

Battery Type	Minutes			Hours				
	10	15	30	1	5	8	10	20
G13EP	467.0	348.0	206.0	120.0	30.0	20.0	16.0	9.0
G16EP	560.0	421.0	251.0	149.0	38.0	25.0	20.0	11.0
G26EP	990.0	749.0	446.0	260.0	63.0	42.0	34.0	18.0
G42EP	1333.0	1026.0	629.0	376.0	96.0	64.0	52.0	28.0
G70EP	2443.0	1879.0	1139.0	669.0	162.0	107.0	87.0	46.0

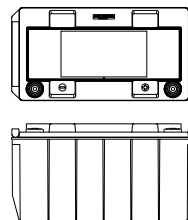
## Outline Drawings



G13EP and G16EP



G26EP and G42EP



G70EP

Drawing sizes are for terminal position reference only  
Drawings are not proportionate to each other



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