

# GEL VRLA Modular Battery Systems

200–2,000 Ah Battery Systems



The GEL Series 2 Volt batteries are constructed with a low gravity gel suspended electrolyte to give superior long-duration and deep-discharge performance, as well as predictable service life in telecom and renewable energy applications. These batteries must be ordered with the horizontal seismic modular 'EOS' Racks and these systems include solid intercell connectors as well as removable Plexiglas covers.

### Features

- 15 year design life at 77° F
- High cycle life at 77° F
  - 1500+ cycles @ 80% DOD
  - 3500+ cycles @ 20% DOD
- 100% capacity upon delivery
- Maintenance free – no watering required
- No corrosive fumes – special battery room not required
- Seismic modular racking
- Tank formed plates provide consistent and stable voltages
- Extra space in jars for grid growth to enhance battery life

### Construction

Positive Plate	Flat plate with lead-calcium/tin grid alloy
Negative Plate	Flat plate with lead-calcium grid alloy
Separator	Microporous glass separator
Container	UL 94 HB ABS plastic (flame retardant UL 94 V0 optional)
Electrolyte	Fixed as gel
Safety Valve	Self resealing, pressure regulated and explosion proof
Terminals	High conductivity lead-plated, with brass insert
Modular Racking	Seismic rated, acid resistant, epoxy coated
Temp. Range	5° to 130° F (68° to 77° F recommended)
Float Voltage	2.25 V/cell
Equalize Voltage	2.35 V/cell
Mounting Orientation	Vertical or Horizontal
Plexiglas Shields	Included
Intercell Connectors	Lead plated copper bars (part of modular rack kit)

### Applications

- Telecom
- Utility
- Oil and Gas
- Solar/Photovoltaic
- Emergency Lighting
- Railways

### Technical Data

Part No.	8 hr. Ah Rate to 1.75 V/cell	Nominal Voltage (V)	L x D x H (in.)	Weight (lb.)	Internal Resistance (mOhms)	Terminal Type
GEL-200	200	2	3.72 x 7.26 x 14.7	31.9	0.66	M8
GEL-300	300	2	4.84 x 7.26 x 14.7	42.7	0.48	M8
GEL-400	400	2	6.54 x 7.26 x 14.7	58.3	0.34	M8
GEL-500	500	2	7.66 x 7.26 x 14.7	68.9	0.33	M8
GEL-600	600	2	8.78 x 7.26 x 14.7	82.5	0.28	M8
GEL-800	800	2	6.06 x 9.02 x 22.3	116.0	0.22	M8
GEL-1000	1000	2	7.32 x 9.02 x 22.3	138.2	0.18	M8
GEL-1200	1200	2	8.86 x 9.02 x 22.3	166.1	0.17	M8
GEL-1500	1500	2	10.5 x 9.02 x 22.3	204.6	0.15	M8
GEL-2000	2000	2	13.8 x 9.17 x 22.3	268.4	0.11	M8

For flame retardant covers add 'FR' after part number (Example: GEL-200-FR).

## Performance Data

Constant Current Discharge in Amperes to 1.75 V/cell at 77° F

Part No.	5 min.	15 min.	30 min.	1 hr.	2 hr.	3 hr.	5 hr.	6 hr.	8 hr.	10 hr.	24 hr.	48 hr.	100 hr.
GEL-200	290.4	246.0	171.0	114.0	70.8	52.5	36.5	32.1	25.0	21.3	9.8	5.1	2.7
GEL-300	435.6	369.0	256.5	171.0	106.2	78.7	54.7	48.1	38.0	31.9	14.7	7.6	4.0
GEL-400	580.8	492.0	342.0	228.0	141.5	105.0	72.9	64.1	50.0	42.6	19.6	10.1	5.3
GEL-500	726.0	615.0	427.0	285.0	176.9	131.2	91.2	80.2	63.0	53.2	24.4	12.6	6.7
GEL-600	871.2	738.0	512.9	342.0	212.3	157.5	109.4	96.2	75.0	63.8	29.3	15.2	8.0
GEL-800	967.7	821.1	612.1	441.0	291.9	215.3	146.7	126.9	100.0	83.2	38.7	20.6	11.2
GEL-1000	1210	1026	765.1	551.2	364.9	369.2	182.5	157.8	125.0	103.5	48.1	25.7	14.0
GEL-1200	1450	1231	917.2	660.8	437.8	323.0	220.1	190.7	150.0	125.1	58.1	31.0	16.9
GEL-1500	1815	1540	1148	826.8	547.3	403.7	272.4	235.5	188.0	154.5	71.7	38.3	20.8
GEL-2000	2419	2053	1530	1103	729.7	538.3	363.2	314.1	250.0	205.9	95.7	51.0	27.8

## Seismic Modular Racks for 48 Vdc Systems

Battery Type	Part No.	L x D x H (in.)
GEL-200	24xEOS200-RACK	35 x 17 x 42
GEL-300	24xEOS300-RACK	35 x 17 x 50
GEL-400	24xEOS400-RACK	35 x 17 x 59
GEL-500	24xEOS500-RACK	35 x 17 x 66
GEL-600	24xEOS600-RACK	35 x 17 x 73
GEL-800	24xEOS800-RACK	42 x 25 x 57
GEL-1000	24xEOS1000-RACK	42 x 25 x 64
GEL-1200	24xEOS1200-RACK	42 x 25 x 73
GEL-1500	24xEOS1500-RACK	65 x 25 x 57
GEL-2000	24xEOS2000-RACK	66 x 25 x 70



Racks include pos. and neg. termination plates with cover

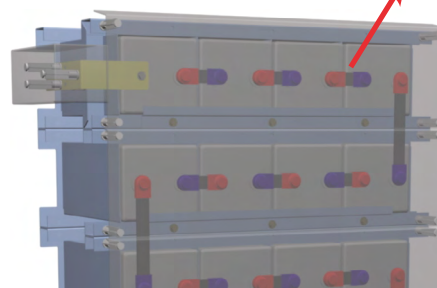
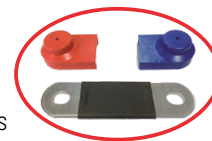
24xEOS800-RACK

## Seismic Modular Racks for 125 Vdc Systems

Battery Type	Part No.	L x D x H (in.)
GEL-200	60xEOS200-RACK	85 x 17 x 42
GEL-300	60xEOS300-RACK	85 x 17 x 50
GEL-400	60xEOS400-RACK	85 x 17 x 59
GEL-500	60xEOS500-RACK	85 x 17 x 66
GEL-600	60xEOS600-RACK	85 x 17 x 73
GEL-800	60xEOS800-RACK	107 x 25 x 57
GEL-1000	60xEOS1000-RACK	107 x 25 x 64
GEL-1200	60xEOS1200-RACK	107 x 25 x 73
GEL-1500	60xEOS1500-RACK	163 x 25 x 57
GEL-2000	60xEOS2000-RACK	165 x 25 x 70

Fully-insulated system includes:

- Plexiglas shields
- Termination plate covers
- Solid intercell bar with polarity caps



Other system voltages and rack layouts available upon request.