



Hybrid GEL LPGS series



- 15°C - +50°C**
TEMPERATURE RANGE
- Up to 9 months at 25°C**
SHELF LIFE
- 2-3 years***
WARRANTY
- up to 18 years (25°C)***
DESIGN LIFE

* Depending on the actual model

Leoch GEL batteries, LPGS series, are Hybrid Gel Valve-Regulated Lead-Acid batteries that have been optimized for renewable energy applications. Engineered using hybrid gel technology with proper SiO₂ infusion technology (Gelled electrolyte) and AGM separator, LPGS batteries offer a balanced performance between GEL and AGM technologies for cyclic applications. LPGS batteries come in various capacities in 2V cells or 12V blocks, to cover any requirement.

GENERAL FEATURES

- DEPTH OF DISCHARGE**: Increased cyclic performance offering more than 500 Cycles at 80%DOD
- SAFETY**: Unique anti-explosion one-way vent valve design to minimize water loss and increase safety
- PSoC ENDURANCE**: Increased PSoC endurance and performance compared to conventional AGM technology batteries
- LONG SERVICE LIFE**: Thick plates using a special pasting formula ensures long service life
- CHARGE ENDURANCE**: Enhanced over charge and over discharge endurance
- ABS CASE**: ABS case UL94-HB (UL94-V0 Optional) is used for increased container strength

BATTERY SPECIFICATIONS

Model	Nominal Voltage (V)	Rated Capacity 10Hr @ 1.80V/cell (AH)	Approx. Dimensions								Approx. Weight		Terminal Type
			Length		Width		Height		Total Height		kg	lbs	
			mm	in.	mm	in.	mm	in.	mm	in.			
LPGS2-200	2	200	170.00	66.93	110.00	43.31	328.00	129.13	337.00	132.68	13.60	29.98	M8
LPGS2-300	2	300	170.00	66.93	150.00	59.06	330.00	129.92	337.00	132.68	18.90	41.67	M8
LPGS2-400	2	400	210.00	82.68	175.00	68.90	330.00	129.92	339.00	133.46	25.70	56.66	M8
LPGS2-500	2	500	240.00	94.49	175.00	68.90	330.00	129.92	338.00	133.07	30.20	66.58	M8
LPGS2-600	2	800	330.00	129.92	175.00	68.90	330.00	129.92	340.00	133.86	37.20	82.01	M8
LPGS2-800	2	800	410.00	161.42	175.00	68.90	330.00	129.92	340.00	133.86	50.70	111.77	M8
LPGS2-1000	2	1000	475.00	187.01	175.00	68.90	328.00	129.13	338.00	133.07	60.40	133.16	M8
LPGS2-1500	2	1500	403.00	158.66	354.00	139.37	339.00	133.46	349.00	137.40	96.60	212.97	M8
LPGS12-33	12	30.6	195.00	76.77	130.00	51.18	164.00	64.57	167.00	65.75	10.50	23.15	M6
LPGS12-38	12	38	197.00	77.56	165.00	64.96	170.00	66.93	170.00	66.93	13.30	29.32	M6
LPGS12-65	12	65	325.00	127.95	167.00	65.75	174.00	68.50	174.00	68.50	21.40	47.18	M6
LPGS12-75	12	75	260.00	102.36	168.00	66.14	208.00	81.89	214.00	84.25	22.50	49.60	M6
LPGS12-80	12	80	260.00	102.36	168.00	66.14	208.00	81.89	214.00	84.25	24.00	52.91	M6
LPGS12-90	12	90	306.00	120.47	168.00	66.14	208.00	81.89	214.00	84.25	27.00	59.52	M6
LPGS12-100	12	100	330.00	129.92	173.00	68.11	212.00	83.46	218.00	85.83	30.80	67.90	M8
LPGS12-120	12	120	408.00	160.63	177.00	69.69	225.00	88.58	225.00	88.58	34.30	75.62	M8
LPGS12-140	12	140	483.00	190.16	170.00	66.93	238.50	93.90	238.50	93.90	41.80	92.15	M8
LPGS12-150	12	150	483.00	190.16	170.00	66.93	238.50	93.90	238.50	93.90	43.60	96.12	M8
LPGS12-180	12	180	532.00	209.45	207.00	81.50	214.00	84.25	220.00	86.61	54.00	119.05	M8
LPGS12-200	12	200	522.00	205.51	240.00	94.49	218.00	85.83	224.00	88.19	60.30	132.94	M8
LPGS12-250	12	250	522.00	205.51	268.00	105.51	220.00	86.61	226.00	88.98	73.10	161.16	M8
LPFG12-50HS	12	50	390.00	153.54	105.00	41.34	200.00	78.74	200.00	78.74	18.50	40.79	M6
LPFG12-100HS	12	100	394.00	155.12	110.00	43.31	286.00	112.60	286.00	112.60	31.70	69.89	M6
LPFG12-150HS	12	150	551.00	216.93	110.00	43.31	288.00	113.39	288.00	113.39	46.40	102.29	M6
LPFG12-190HS	12	190	560.00	220.47	126.00	49.61	320.00	125.98	320.00	125.98	60.50	133.38	M8

PERFORMANCE CHARACTERISTICS

Discharge Characteristics (2V)

Floating Charging Characteristics

Discharge Characteristics (12V)

Temperature Effect on Long Term Float Life (2V)