Solar
OPzV series

-20°C – +55°C
TEMPERATURE RANGE

≤3% per month at 25°C
SELF-DISCHARGE

1-5 Years*
WARRANTY

2000-2400 cycles *
NUMBER OF CYCLES AT 60% DOD

* depending on the application and the actual model

LEOCH Solar Tubular Gel batteries, Solar OPzV series, are Gel Valve-Regulated Lead-Acid batteries using tubular plates that have been optimized for high cyclic renewable energy applications. Engineered for long-life cyclic applications, OPzV batteries offer up to 20-year life design with high cyclic abilities.

GENERAL FEATURES

DEPTH OF DISCHARGE
Ideal for renewable energy applications offering 2000 cycles (2V) and 2400 cycles (12V) at 60% DoD

MAINTENANCE FREE
Complete maintenance free design throughout the battery's life (in accordance to the provided product and user's manual)

DESIGN LIFE
12V: 16 years design life (20°C)
2V: 20 years design life (20°C)

SAFETY
Unique anti-explosion one-way vent valve design to minimize water loss & increase safety

SPACE OPTIMIZATION
Horizontal installation for optimum space utilization especially in large installation

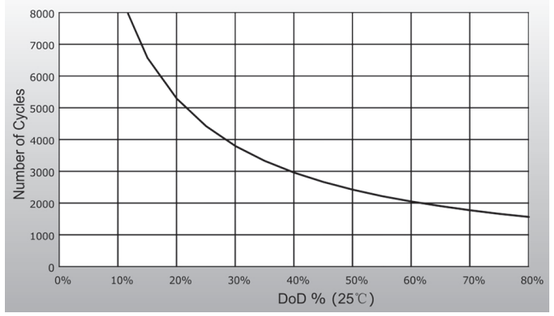
ABS CASE
ABS case UL94-HB (UL94-V0 optional) is used for increased container strength

BATTERY SPECIFICATIONS

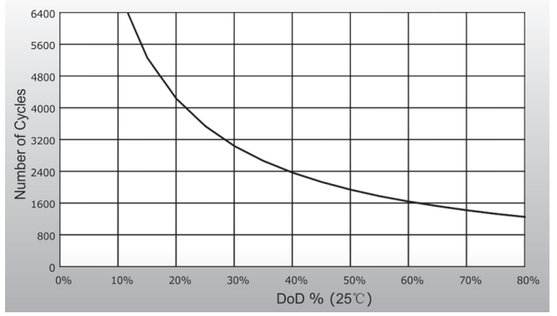
Model	Nominal Voltage (V)	Rated Capacity 10Hr @1.80V /cell (AH)	Rated Capacity 100Hr @1.80V /cell (AH)	Approx. Dimensions								Approx. Weight		Terminal Type
				Length		Width		Height		Total Height				
				mm	in.	mm	in.	mm	in.	mm	in.	kg	lbs	
4OPzV200	2	200	260	103.00	4.06	206.00	8.11	355.00	13.98	390.00	15.35	18.80	41.50	M8
5OPzV250	2	250	325	124.00	4.88	206.00	8.11	355.00	13.98	390.00	15.35	23.10	50.90	M8
6OPzV300	2	300	390	145.00	5.71	206.00	8.11	355.00	13.98	390.00	15.35	27.10	59.80	M8
5OPzV350	2	350	455	124.00	4.88	206.00	8.11	471.00	18.54	506.00	19.92	29.00	63.90	M8
6OPzV420	2	420	546	145.00	5.71	206.00	8.11	471.00	18.54	506.00	19.92	34.50	76.10	M8
7OPzV490	2	490	637	166.00	6.54	206.00	8.11	471.00	18.54	506.00	19.92	39.00	86.00	M8
6OPzV600	2	600	780	145.00	5.71	206.00	8.11	646.00	25.43	681.00	26.81	46.00	101.40	M8
8OPzV800	2	800	1040	191.00	7.52	210.00	8.27	646.00	25.43	681.00	26.81	65.10	143.50	M8
10OPzV1000	2	1000	1300	233.00	9.17	210.00	8.27	646.00	25.43	681.00	26.81	78.50	173.10	M8
12OPzV1200	2	1200	1560	275.00	10.83	210.00	8.27	646.00	25.43	681.00	26.81	93.00	205.10	M8
12OPzV1500	2	1560	1950	275.00	10.83	210.00	8.27	796.00	31.34	831.00	32.72	115.00	253.60	M8
16OPzV2000	2	2000	2600	399.00	15.71	214.00	8.27	772.00	30.39	807.00	31.77	155.00	341.80	M8
20OPzV2500	2	2500	3250	487.00	19.17	212.00	8.35	772.00	30.39	807.00	31.77	196.00	432.20	M8
24OPzV3000	2	3000	3900	576.00	22.68	212.00	8.35	772.00	30.39	807.00	31.77	232.00	511.60	M8
12V 3 OPzV100FT	12	100	120	551.00	21.70	110.00	4.33	287.00	11.30	287.00	11.30	39.70	87.50	M6
12V 3 OPzV120FT	12	120	144	551.00	21.70	110.00	4.33	287.00	11.30	287.00	11.30	42.30	93.30	M6
12V 4 OPzV150FT	12	150	180	549.50	21.60	124.50	4.90	315.00	12.40	315.00	12.40	51.70	114.00	M8
12V2OPzV40	12	40	48	260.00	10.20	168.00	6.61	208.00	8.20	230.00	9.10	19.00	41.90	T14
12V2OPzV45	12	45	54	260.00	10.20	168.00	6.61	208.00	8.20	214.00	8.40	19.50	43.00	T14
12V3OPzV60	12	60	72	260.00	10.20	168.00	6.61	208.00	8.20	229.00	9.00	23.70	52.30	T14
12V4OPzV80	12	80	96	330.00	13.00	173.00	6.81	212.00	8.30	218.00	8.60	30.80	67.90	M8
12V5OPzV100	12	100	120	408.00	16.10	177.00	6.97	225.00	8.90	225.00	8.90	38.30	84.50	M8
12V6OPzV120	12	120	144	483.00	19.00	170.00	6.69	238.50	9.40	238.50	9.40	45.70	100.80	M8
12V7OPzV140	12	140	168	532.00	20.90	207.00	8.15	214.00	8.40	220.00	8.70	54.00	119.10	M8
12V8OPzV160	12	160	192	532.00	20.90	207.00	8.15	214.00	8.40	220.00	8.70	59.30	130.80	M8
12V9OPzV180	12	180	216	522.00	20.60	240.00	9.45	218.00	8.60	224.00	8.80	67.40	148.60	M8
12V10OPzV200	12	200	240	522.00	20.60	268.00	10.55	220.00	8.70	226.00	8.90	75.90	167.40	M8

PERFORMANCE CHARACTERISTICS

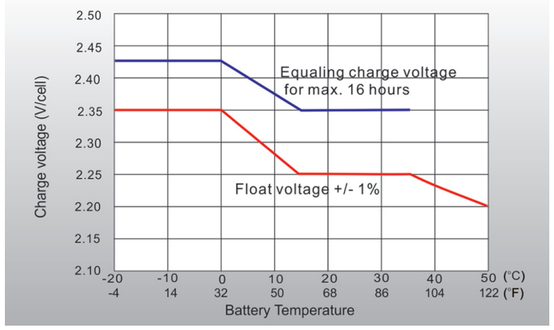
Cycle Life in Relation to DOD (2V)



Cycle Life in Relation to DOD (12V)



Charge Voltage vs Ambient Temperature



General Relation of Capacity vs Storage Time