



EnergyCell™ OPzV

VRLA Tubular Gel Energy Storage Batteries



- Designed for renewable energy applications
- Maintenance-free design
- Hardware and intercell connects included
- 3,000 cycles @ 50% DOD
- Optional 24V + 48V racks and breaker disconnects available
- 3 year full replacement warranty

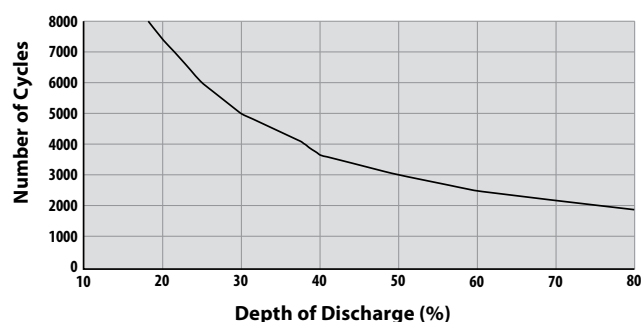
EnergyCell OPzV is an energy storage battery developed for applications requiring regular deep cycling.

Maintenance-free energy storage solution that offers significant benefits in terms of cost per cycle, combined with the highest level of reliability and performance even for remote installations where long discharges occur and excellent recharging properties are essential. Optimum design, exclusive use of high quality materials, robust construction and state-of-the-art manufacturing processes make EnergyCell OPzV batteries an ideal solution for demanding Renewable Energy Storage applications.

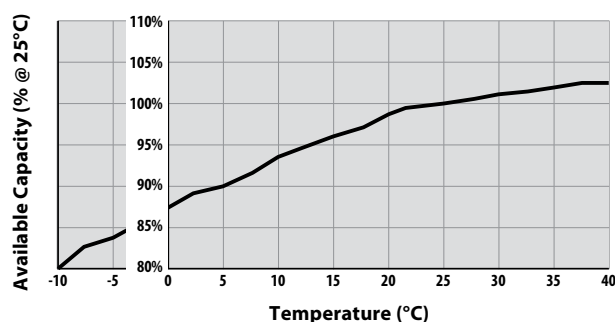
Models:	OPzV-450	OPzV-750	OPzV-2000	OPzV-3000
Technology	OPzV VRLA Tubular GEL	OPzV VRLA Tubular GEL	OPzV VRLA Tubular GEL	OPzV VRLA Tubular GEL
Cell Voltage	2V	2V	2V	2V
Cycle Life (50% DOD 1.75VPC)	3000	3000	3000	3000
Short Circuit Current	3380A	4520A	8640A	12680A
Maximum Charge Current(A)	3*110 = 100.8 (20°C)	3*110 = 170 (20°C)	3*110 = 414 (20°C)	3*110 = 648 (20°C)
Internal Resistance (mOhm)	0.60	0.45	0.24	0.16
kWh Storage Per Cell	C/24: 0.77 C/120: 0.87	C/24: 1.3 C/120: 1.4	C/24: 3.24 C/120: 3.75	C/24: 5.0 C/120: 5.65
Dimensions L x W x H (mm/in)	145 x 206 x 382 / 5.71 x 8.11 x 15.04	166 x 206 x 498 / 6.54 x 8.11 x 19.61	275 x 210 x 673 / 10.82 x 8.27 x 26.5	399 x 214 x 799 / 15.71 x 8.43 x 31.46
Weight (kg/lb)	28.0 / 61.71	42.0 / 92.57	97.0 / 213.8	165.0 / 363.8
Operating Temperature Limits (°C)	-20 to 45 (preferably acc to manual)	-20 to 45 (preferably acc to manual)	-20 to 45 (preferably acc to manual)	-20 to 45 (preferably acc to manual)
Shelf Life (@ 20°C)	6 months	6 months	6 months	6 months
Warranty	3 years	3 years	3 years	3 years

Ah Capacity (1.75VPC @ 20°C)	8Hr	10Hr	12Hr	20Hr	24Hr	48Hr	72Hr	100Hr	120Hr	240Hr
OPzV-450	334.24	348.4	359.76	389.8	399.84	434.4	451.44	463.0	468.0	482.4
OPzV-750	567.4	592.9	613.2	667.4	685.7	749.3	780.5	802.0	813.6	844.8
OPzV-2000	1387.0	1449.5	1499.0	1632.2	1677.8	1840.3	1925.3	1987.0	2017.2	2100.0
OPzV-3000	2171.0	2264.0	2337.2	2529.4	2593.4	2813.4	2923.9	3001.0	3038.4	3141.6

EnergyCell OPzV Cycle Life



EnergyCell OPzV Capacity vs. Temperature Chart (Rate = 120Hr/1.85VPC)



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