



OPzV

VRLA Gel Deep Cycle Batteries

With an extensive product range available ReFortis prides itself on world-class product design, production processes, technical development, cost structure and location.

ReFortis valve regulated lead-acid batteries for the solar power and renewable energy market. With an innovative Gel-Technology design ReFortis OPzV batteries have a reliable maintenance-free and leakage-free construction.

OPzV Solar Technology

Positive plate

Modern tubular design that maximises the active lead material to give high energy density. Lead calcium tin alloy ensures low self discharge rates and low float currents

Negative plate

The latest negative plate design ensures good retention and maximisation of the Negative Active materia

Container & Lid

Manufactured from Acrylonitrile-Butadiene-Styrene (ABS) which is durable and offers good resistance to heat and chemicals. UL94-V0 flame retardant option



Terminal

Specifically designed terminal maintains an air-tight seal even when the plates expand and grow

Pressure release valve

The valve is designed to open at a specific pressure to ensure that hydrogen gas can be released safely

Electrolyte

Silica-based-gel-form electrolyte that has no water loss and therefore maintenance free

Separator

High-porosity and corrosion-resistant ensures maximum capacity for the lifetime of the cell

Features of OPzV Solar Batteries...

- High energy density
- Robust tubular positive electrode design, compliant with DIN 40742
- Low self discharge rate allows for up to 2 years shelf life
- Operating temperature -20°C to +55°C
- 20 year float life at 20°C (68°F)
- EUROBAT design life: Long Life > 12 years
- Fully recyclable with low CO2 footprint

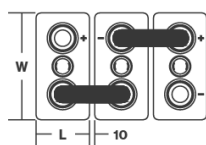
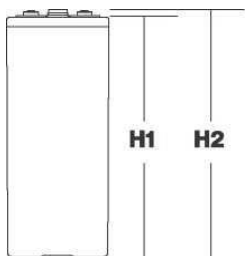
Applications...

- UPS Systems
- Traffic Systems
- Emergency Lighting
- Off Grid Solutions
- Telecommunications

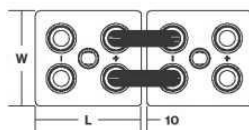
OPzV Solar

	Plate	Length	Width	Height over lid	Height over pillar	Typical max weight	Capacity (Ah) C10 - 1.8V
DIN Cell Type	(Ah)	(mm)	(mm)	(mm)	(mm)	(kg)	Cell at 20°C
RE OPzV100	50	103	206	354	367	10.5	113
RE OPzV150	50	103	206	354	367	15.3	168
RE OPzV200	50	103	206	354	367	18.4	225
RE OPzV250	50	124	206	354	367	22.2	280
RE OPzV300	50	145	206	354	367	26.2	335
RE OPzV350	70	124	206	471	484	30.7	415
RE OPzV420	70	145	206	471	484	36.2	500
RE OPzV490	70	166	206	471	484	41.7	580
RE OPzV600	100	145	206	643	656	50.0	710
RE OPzV700	100	145	206	643	656	53.0	828
RE OPzV800	100	210	191	644	657	66.3	950
RE OPzV900	100	210	233	646	659	78.0	1069
RE OPzV1000	100	210	233	646	659	81.7	1185
RE OPzV 1100	100	210	275	645	658	92.0	1300
RE OPzV1200	100	210	275	645	658	97.0	1420
RE OPzV 1375	125	210	275	796	809	102.0	1513
RE OPzV 1500	125	210	275	796	809	111.9	1650
RE OPzV1625	125	210	275	796	809	116.0	1788
RE OPzV1750	125	214	399	771	784	145.8	1925
RE OPzV1875	125	214	399	771	784	150.0	2063
RE OPzV2000	125	214	399	771	784	155.6	2200
RE OPzV2125	125	214	399	771	784	156.0	2329
RE OPzV2250	125	214	399	771	784	165.0	2466
RE OPzV 2375	125	212	487	769	782	187.6	2602
RE OPzV 2500	125	212	487	769	782	190.1	2740
RE OPzV 2625	125	212	575	771	784	214.0	2888
RE OPzV2750	125	212	575	771	784	216.4	3025
RE OPzV2875	125	212	575	771	784	223.6	3162
RE OPzV3000	125	212	575	771	784	226.2	3300
RE OPzV 3125	125	212	575	771	784	233.3	3438
RE OPzV3250	125	212	575	771	784	236.0	3575

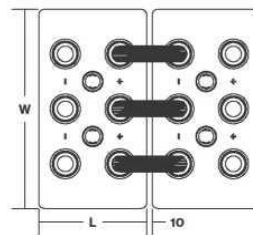
H1: Height over lid
H2: Height over pillar
M10 threaded terminal
Torque: 23Nm
Not to scale



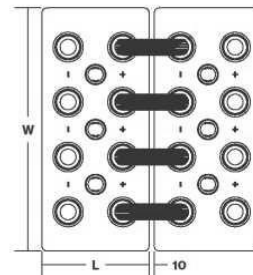
RE OPzV 100 to
RE OPzV 700



RE OPzV 800 to
RE OPzV 1625



RE OPzV 1750 to
RE OPzV 2250



RE OPzV 2375 to
RE OPzV 3250