

APPLICATION:

Sealed stationary batteries of VLADAR OPzV BLOCK series are developed for medium to large solar powered applications. These batteries have been designed by our engineering team together with leading Ukrainian manufacturers of solar panels.

They are applied at solar and wind power stations, power distribution companies, telecommunications, railways and many other safety equipment power supplies.

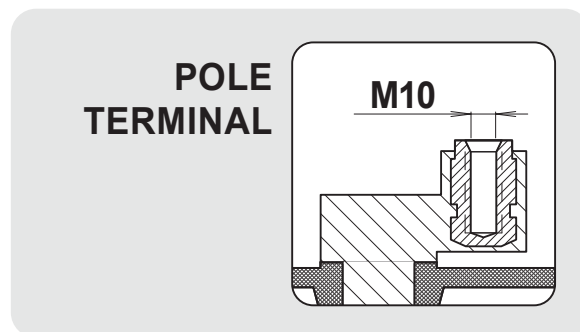
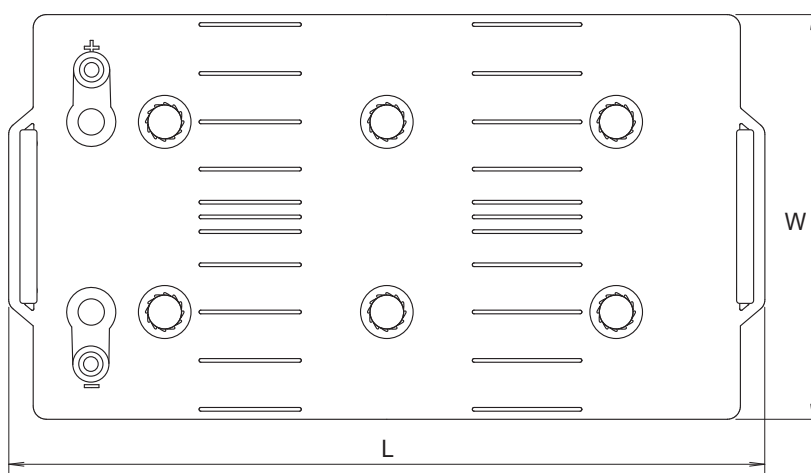
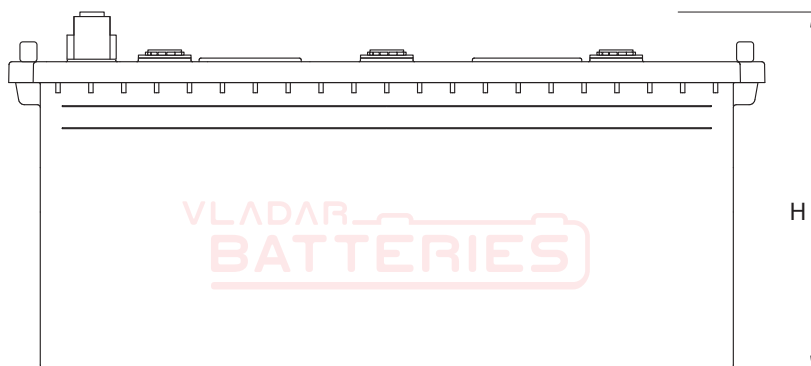
SPECIFIC FEATURES:

Unique combination of «Calcium/Calcium» technology, unique multifraction filling of positive tubular electrodes PLUDERTEC, and VRLA-technology with gel electrolyte.

MAIN ADVANTAGES OF SERIES:

- Batteries are environmentally friendly! They can be exploited in one premise with staff and equipment!
- Extra low self-discharge.
- Improved electrical characteristics.

12V 8 OPzV 200



TECHNICAL CHARACTERISTICS:

Battery type	Voltage U, V	Capacity C ₁₀ , Ah	Capacity C ₁₀₀ , Ah	Overall dimensions, mm			Weight, kg (max)
				Length (L)	Width (W)	Height (H)	
12V 8 OPzV 200	12	200	240	518	275	255	63.0

DESIGN:

Both electrodes are made of patented lead-calcium-tin alloy providing long battery service life.

Positive electrode: tubular plate filled with unique multi- fractional PLUDERTEC® active material providing higher cell lifetime along with required electrical characteristics.

Negative electrode: pasted grid plate.

Separation: electrodes are separated by special high-porous separator made of polymeric materials.

Container and lid: made of impact plastic that enables easy service and mechanical stability during all service life.

Electrolyte: GEL.

Regulating valves: special plugs with regulating valve provide maintenance of overpressure inside the battery as well as recombination of oxygen produced during the process of operation and as a result – the absence of water loss.

Pole terminal: for bolt M10 (optionally - A-pole);

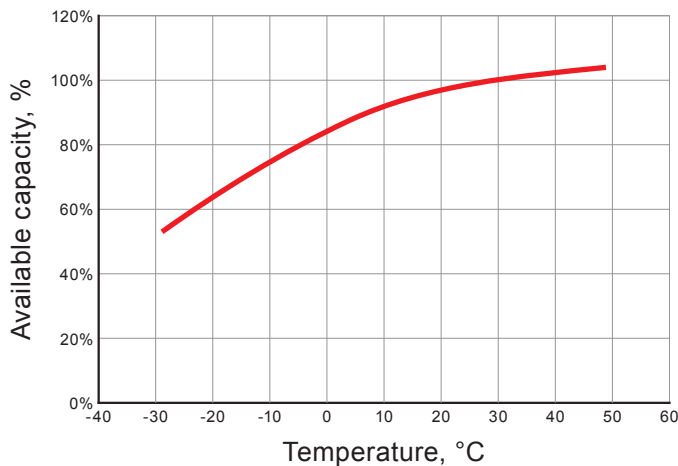
Connectors: flexible connectors FROETEK (Germany); optionally - rigid connectors made of copper.

Temperature range: from -20 to +45°C (+20°C is preferable).

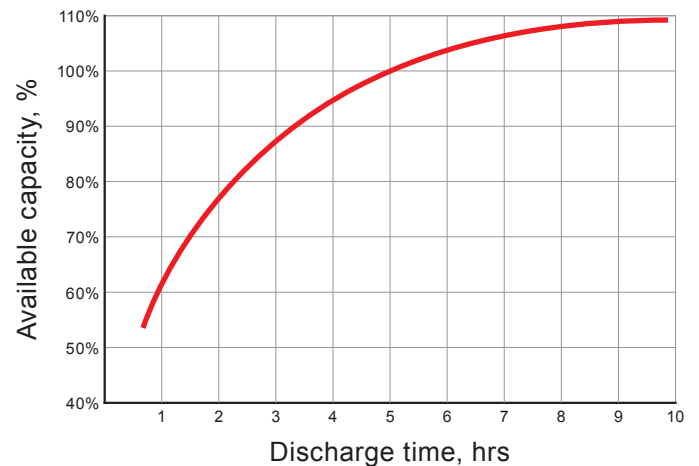
Installation: all standard installations in vertical position and on isolated racks are acceptable.

Service life: at least 10 years at proper operation.

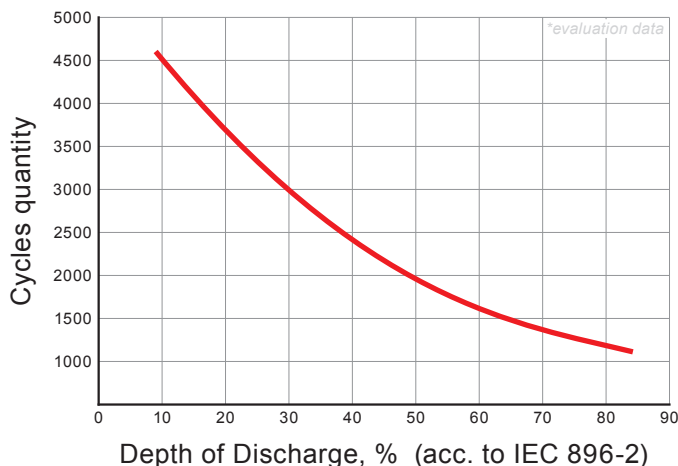
CAPACITY vs TEMPERATURE



CAPACITY vs DISCHARGE MODE



SERVICE LIFE of OPzV blocks



Unique combination of “Calcium/Calcium” technology, multi-fractional filling of positive electrodes and VRLA-technology enables improved electrical characteristics and higher service life of batteries