OPzS Blocks

Technical Specification

APPLICATION:

Stationary batteries of VLADAR OPzS BLOCK series are developed for small and medium size powered applications. These batteries have been designed by our engineering team using the experience of production of traction block batteries.

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

SPECIFIC FEATURES:

Combination of special alloying technology and unique multi-fraction filling of positive tubular electrodes PLUDERTEC, and also traction batteries production experience.

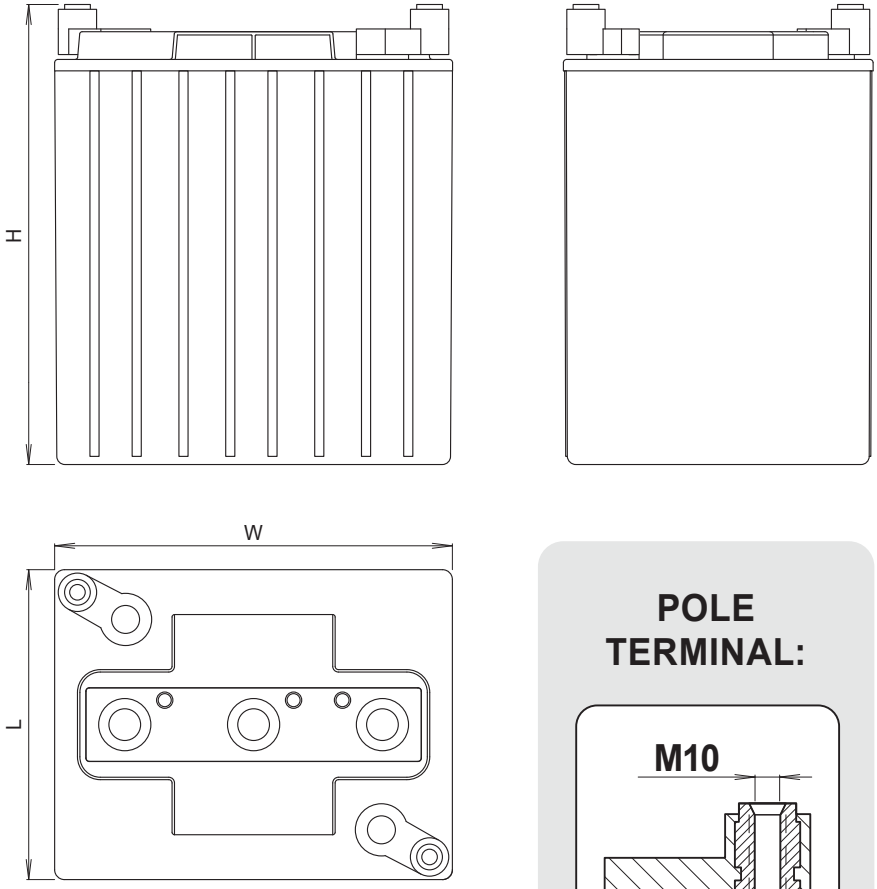
MAIN ADVANTAGES OF SERIES:

— Very low self-discharge.

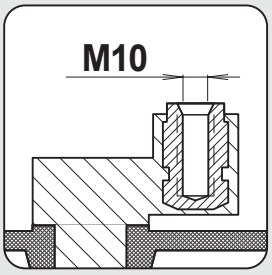
— Improved electrical characteristics.

— Compact design.

6V 5 OPzS 200



POLE TERMINAL:



Battery type	Voltage U, V	Capacity C_{10}, Ah	Capacity C_{100}, Ah	Overall dimensions, mm			Filled weight, kg (max)
				Length (L)	Width (W)	Height (H)	
6V 5 OPzS 200	6	200	240	190	244	295	32.0

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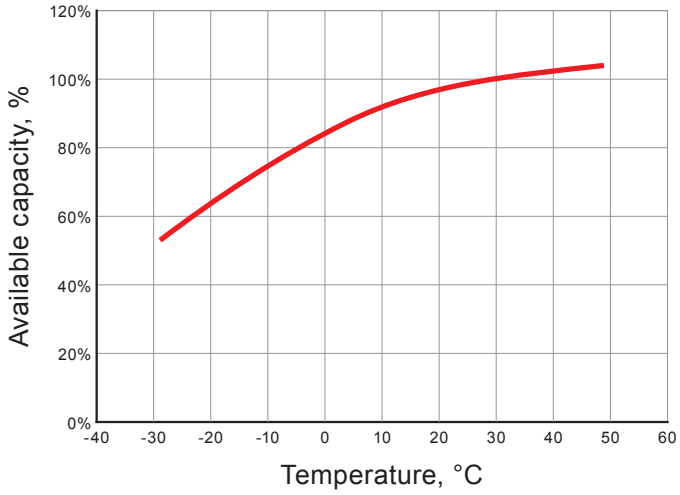
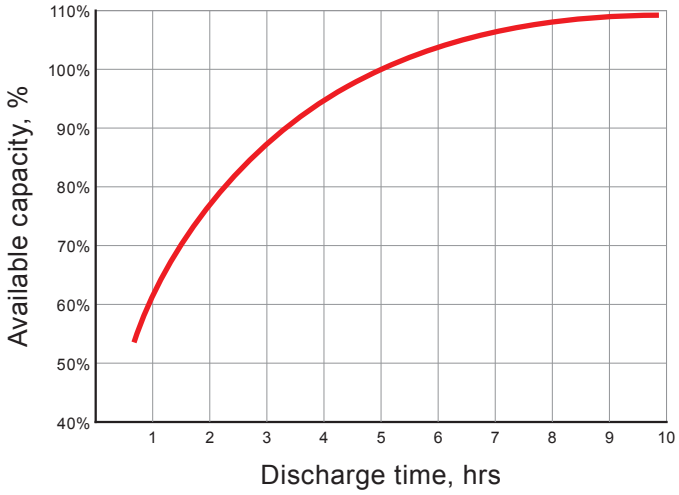
DESIGN:

Positive electrode:	tubular plate filled with unique multifractional PLUDERTEC® active material providing higher cell lifetime along with required electrical characteristics.
Negative electrode:	pasted grid plate made of patented alloy providing long battery service life.
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:	water solution of sulfuric acid with density of 1.27±0.005 g/cm^3.
Regulating valves:	plugs design prevents electrolyte splashing even at charging with higher voltage. Special plugs are applied as extra means of ignition prevention (to increase safety).
Pole terminal:	for bolt M10.
Connectors:	special flexible connectors (optional).
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:	depends on operation conditions.

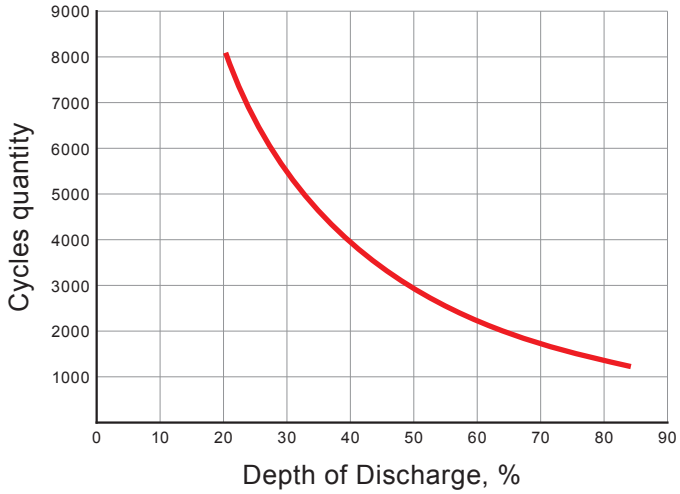
CAPACITY vs TEMPERATURE



CAPACITY vs DISCHARGE MODE



SERVICE LIFE of OPzS Blocks



Unique combination of patented alloys and multi-fractional filling of positive electrode enables:

- ***Higher cell lifetime along with required electrical characteristics.***
- ***Improved characteristics and low self-discharge.***
- ***2,5 times less electrolyte evaporation comparing with conventional batteries.***

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