

Industrial Batteries / Network Power

ENERGYSTORE GEL SOLAR



“Superior quality for”
renewable energy”

Applications:

- > Solar / Wind Power Stations
- > Traffic systems
- > Hydro Power Generation
- > Off Grid Solutions
- > Telecommunications / Mobile Phone Stations
- > Power Distribution Companies



Features:

- > High energy density and cyclic performance
- > OPzV Robust tubular positive electrode design, compliant with DIN 40742
- > >1500 cycles at 80% D.O.D at 20°C
- > Low self discharge rate allows for up to 2 years shelf life
- > Operating temperature -20°C to +45°C
- > EUROBAT design life: Long life > 10 years
- > Fully recyclable with low CO₂ footprint
- > Compliant with IEC 60896 - 21 / 22 / IEC 69427

ENERGYSTORE SOLAR

Technical Data

Positive plate

High energy density tubular design with lead calcium alloy ensures low self-discharge rates and low float currents

Negative plate

Industry leading negative plate design

Separator

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

Gauntlet

Non-woven, high-capacity polyester gauntlet



Vertical installation only

Terminal

Maintains an airtight seal even when the plates expand and grow throughout the lifetime of the cell

Electrolyte

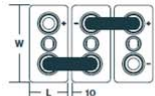
Silica-based gel electrolyte that is maintenance free

Pressure release valve

Opens at high pressure to release hydrogen gas created during operation

Container and lid

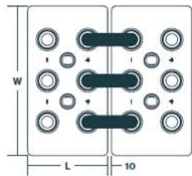
Manufactured from Acrylonitrile-Butadiene-Styrene (ABS) which is durable and heat resistant



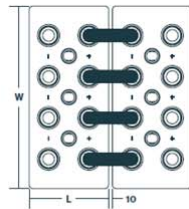
4 ESPV-280SOLAR to
6 ESPV-900SOLAR



8 ESPV-1200SOLAR to
12 ESPV-2000SOLAR

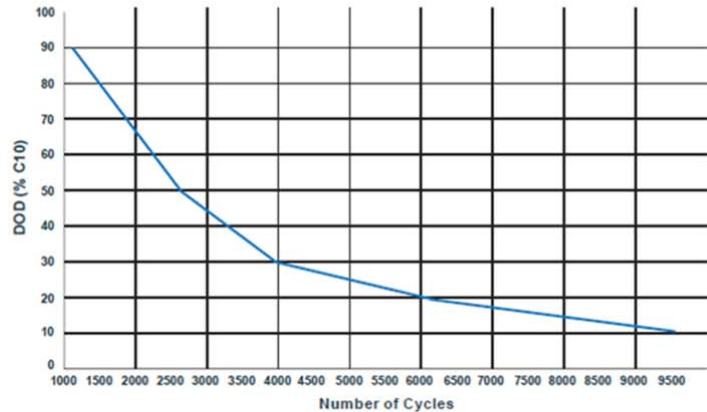


16 ESPV-2600SOLAR



20 ESPV-3300SOLAR to
26 ESPV-4250SOLAR

Cycles vs DOD of ENERGYSTORE GEL SOLAR



Cell specification

Cell Type	Plate (Ah)	Length (mm)	Width (mm)	Height over lid (mm)	Height over pillar (mm)	Typical max weight (kg)	Internal resistance (mOhm)	Short circuit current (A)	C100 1.85 20°C	Capacity (Ah) C120 - 1.85V Cell at 20°C
4 ESPV- 280SOLAR	50	105	208	354	367	18.4	0.95	1650	266	274
5 ESPV-350SOLAR	50	126	208	354	367	22.2	0.78	2100	336	345
6 ESPV-400SOLAR	50	147	208	354	367	26.2	0.63	2550	394	405
5 ESPV-500SOLAR	70	126	208	471	484	30.7	0.63	2800	487	500
6 ESPV-600SOLAR	70	147	208	471	484	36.2	0.54	3400	583	599
7 ESPV-700SOLAR	70	168	208	471	484	41.7	0.46	4050	676	695
6 ESPV-900SOLAR	100	147	208	643	658	50.0	0.51	4350	830	852
8 ESPV-1200SOLAR	100	212	193	644	658	66.3	0.39	4550	1110	1140
10 ESPV-1500SOLAR	100	212	235	646	658	81.7	0.33	6050	1380	1428
12 ESPV-1800SOLAR	100	212	277	645	658	97.0	0.28	7600	1660	1716
12 ESPV-2000SOLAR	125	212	277	796	809	111.9	0.25	8500	1904	1940
16 ESPV-2600SOLAR	125	215	400	771	784	155.6	0.21	10500	2529	2595
20 ESPV-3300SOLAR	125	214	489	769	784	190.1	0.16	13000	3192	3274
22 ESPV-3600SOLAR	125	214	578	771	784	216.14	0.13	14600	3511	3601
24 ESPV-3950SOLAR	125	214	578	771	784	226.2	0.11	16000	3830	3928
26 ESPV-4250SOLAR	125	214	578	771	784	236.0	0.11	17300	4149	4255