

# OPzS Solar batteries

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Battery OPzS Solar

### Long life flooded tubular plate batteries

Design life: >20 years at 20°C, >10 years at 30°C, >5 years at 40°C.  
Cycling expectancy of up to 1500 cycles at 80% depth of discharge.  
Manufactured according to DIN 40736, EN 60896 and IEC 896-1.

### Low maintenance

Under normal operating conditions and 20°C, distilled water has to be added every 2 – 3 years.

### Dry-charged or ready for use electrolyte filled

The batteries are available filled with electrolyte or dry-charged (for long term stocking, container transport or air transport). Dry charged batteries have to be filled with diluted sulphuric acid (density 1,24kg/l @ 20°C).

The electrolyte may be stronger for cold- or weaker for hot climates.

### Learn more about batteries and battery charging

To learn more about batteries and charging batteries, please refer to our book 'Energy Unlimited' (available free of charge from Victron Energy and downloadable from [www.victronenergy.com](http://www.victronenergy.com)).

OPzS Solar type	OPzS Solar 910	OPzS Solar 1210	OPzS Solar 1520	OPzS Solar 1830	OPzS Solar 2280	OPzS Solar 3040	OPzS Solar 3800	OPzS Solar 4560
Nominal capacity (120 hr / 20°C)	910 Ah	1210 Ah	1520 Ah	1830 Ah	2280 Ah	3040 Ah	3800 Ah	4560 Ah
Capacity (10 hr / 20°C)	640 Ah	853 Ah	1065 Ah	1278 Ah	1613 Ah	2143 Ah	2675 Ah	3208 Ah
Capacity 2 / 5 / 10 hours (% of 10hr capacity)	60 / 85 / 100 (@ 68°F/20°C, end of discharge 1,8 Volt per cell)							
Capacity 20 / 24 / 48 / 72 hours (% of 120hr capacity)	77 / 80 / 89 / 95 (@ 68°F/20°C, end of discharge 1,85 Volt per cell)							
Capacity 100 / 120 / 240 hours (% of 120hr capacity)	99 / 100 / 104 (@ 68°F/20°C, end of discharge 1,85 Volt per cell)							
Self-discharge @ 70°F/20°C	3% per month							
Absorption voltage (V) @ 70°F/20°C	2,35 to 2,50 V/cell (28,2 to 30,0 V for a 24 Volt battery)							
Float voltage (V) @ 70°F/20°C	2,23 to 2,30 V/cell (26,8 to 27,6 V for a 24 Volt battery)							
Storage voltage (V) @ 70°F/20°C	2,18 to 2,22 V/cell (26,2 to 26,6 V for a 24 Volt battery)							
Float design life @ 70°F/20°C	20 years							
Cycle design life @ 80% discharge	1500							
Cycle design life @ 50% discharge	2500							
Cycle design life @ 30% discharge	4000							
Dimensions (l x w x h, mm)	147 x 208 x 666	191 x 210 x 666	233 x 210 x 666	275 x 210 x 666	275 x 210 x 821	397 x 212 x 797	487 x 212 x 797	576 x 212 x 797
Dimensions (l x w x h, inches)	5,8 x 8,2 x 26,3	7,5 x 8,2 x 26,3	9,2 x 8,2 x 26,3	10,8 x 8,2 x 26,3	10,8 x 8,2 x 32,4	15,7 x 8,4 x 31,4	19,2 x 8,4 x 31,4	22,7 x 8,4 x 31,4
Weight without acid (kg / pounds)	35 / 77	46 / 101	57 / 126	66 / 146	88 / 194	115 / 254	145 / 320	170 / 375
Weight with acid (kg / pounds)	50 / 110	65 / 143	80 / 177	93 / 205	119 / 262	160 / 253	200 / 441	240 / 530

