

SOLARX™ Series. solar batteries

SOLARX™ Series - XUNZEL

Deep-cycle solar batteries specially designed for photovoltaic, mini wind, back-up and industrial applications.

Characteristics

Robust and safe deep-cycle batteries, specifically designed and manufactured for repeated and continuous deep cycle charging and discharging applications. With excellent deep discharge recovery. (IEC61427 solar cycles: 2000 cycles)

Maintenance-free. Sealed, no risk of spillage and 100% safe. Lead-acid batteries with valve regulated VRLA and absorbent fiberglass mesh construction - AGM without leakage and with gas recombination system.

Designed for **multi-position installation**.

Long Service Life design (up to 15 years) and higher cycle life stability. Stable quality. Reliable. Excellent quality of the plates, resistant to corrosion throughout their useful life.

Very low self-discharge. High initial capacity and easy start-up. Longer time to store without use.
Up to 12 months without recharging.
Low and stable internal resistance.

Ideal for demanding solar, wind, backup, industrial, electronic equipment power supply, UPS, telecommunications and high discharge current applications such as inverters, motors and automatisms, ...

Built with special materials for non fire propagation (XUNZEL UL 94 V-0 certified)

Excellent behaviour at extreme temperatures: -20° to +60°C

Demanding design guaranteed with the highest level of certifications:
IEC/EN61427 | IEC/EN60896-21 | IEC/EN60896-22 |
IEC/EN61000 EMC Directive 2014/30/EU | IEC/EN60896 LVD Directive 2014/35/EU
DIN43539 | UL1989 | ISO9001 | UL94

SOLARX Series are safe and conform to UN2800.
Valid for any transport: air (IATA and FAA), maritime (IMDG),
rail and land (ADR/RID)



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Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications



SOLARX™ Series. Solar batteries

Specifications

Model	SOLARX-3	SOLARX-8	SOLARX-14	SOLARX-30	SOLARX-48	SOLARX-78	SOLARX-120	SOLARX-240	SOLARX-290
Nominal Voltage	12V								
Capacity- (1.75V/cell) @ 25°C									
C10	2.20Ah	6.75Ah	11.50Ah	25.20Ah	39.00Ah	62.50Ah	98Ah	195Ah	230Ah
C20	2.45Ah	7.00Ah	12.50Ah	26.00Ah	42.00Ah	68.30Ah	105Ah	210Ah	260Ah
C100	2.65Ah	7.87Ah	13.80Ah	29.20Ah	47.20Ah	76.70Ah	118Ah	236Ah	288Ah
C120	3.00Ah	8.00Ah	14.00Ah	30.00Ah	48.00Ah	78.00Ah	120Ah	240Ah	293Ah
Weight and Dimensions									
Weight (kg)	0.97	2.00	3.60	8.50	14.90	21.00	31.20	62.50	74.00
Length (mm)	177	151	151	176	198	350	328	522	521
Width (mm)	35	65	98	166	166	167	172	240	268
Height (mm)	62	94	95	125	169	182	215	219	220
Total height (mm)	66	100	101	125	169	182	220	224	225
Internal resistance	45mΩ	27mΩ	14mΩ	9mΩ	7mΩ	5mΩ	4mΩ	3mΩ	4.5mΩ
Self-discharge	The batteries SOLARX™ can be stored for more than 8 months at 20°C average monthly temperature. Self-discharge approx. 2.5-3% per month at 20°C Charge the battery before use.								
Operational Temperature Range									
Discharge	-20°C ~ 60°C								-40°C ~ 60°C
Charge	0°C ~ 50°C								-20°C ~ 50°C
Storage	-20°C ~ 60°C								-40°C ~ 60°C
Operational Nominal Temperature	25 ± 5 °C								
Recommended Operational Temperature Range	10°C a 30°C								
Operational Currents									
Maximum Discharge Current (5s)	23A	70A	120A	260A	400A	650A	1000A	2000A	2600A
Recommended Maximum Charge Current	0.69A	2.10A	3.60A	7.80A	12.00A	19.50A	30.00A	60.00A	60.00A
Charging Voltage									
Absorption (@ 25°C)	14.40-14.70V								
Flotation (@ 25°C)	13.70-13.90V					13.60-13.80V			
Equalization (@ 25°C)	14.60-14.80V								
T ^α effect in Charging Voltage	-3mV/K per cell (6 cells)					-4mV/K per cell (6 cells)			
Terminals									
Terminals	Faston F1	Faston F2	M5 (6~7 N • m)	M6 (8~10 N • m)	M8 (10~12 N • m)				
Case material	A.B.S. (UL94 V-0 Optional)								
Hangers	N/A					Integrated			

Capacity factors for different average temperatures:

-20°C (-4°F)	-10°C (14°F)	0°C (32°F)	5°C (41°F)	10°C (50°F)	20°C (68°F)	25°C (77°F)	30°C (86°F)	40°C (104°F)	45°C (113°F)
46%	66%	76%	83%	90%	98%	100%	104%	107%	109%

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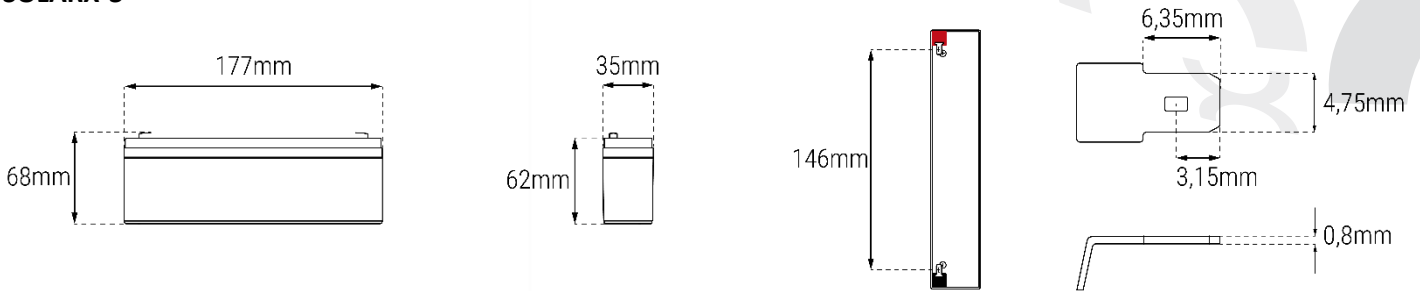


SOLARX™ Series. Baterías solares

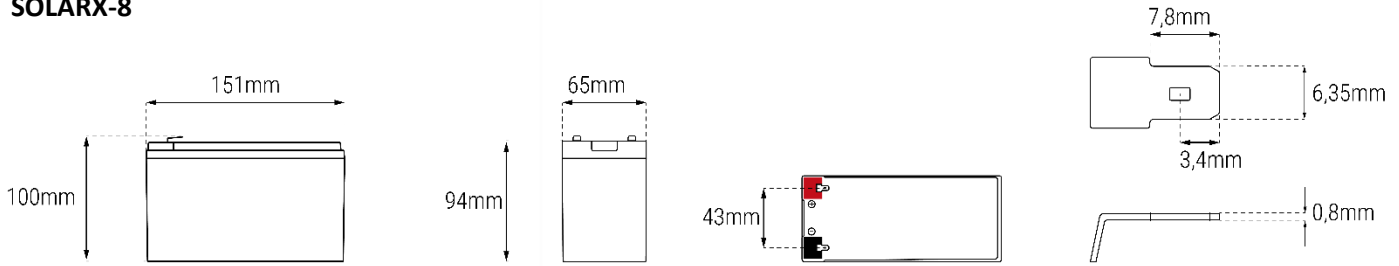
Drawings

Units: mm

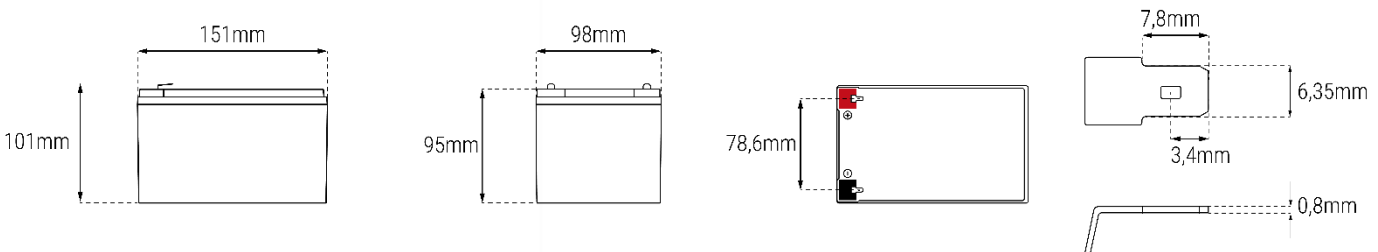
SOLARX-3



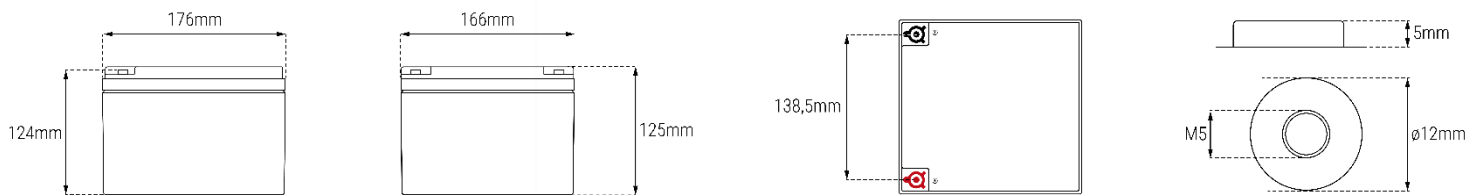
SOLARX-8



SOLARX-14



SOLARX-30



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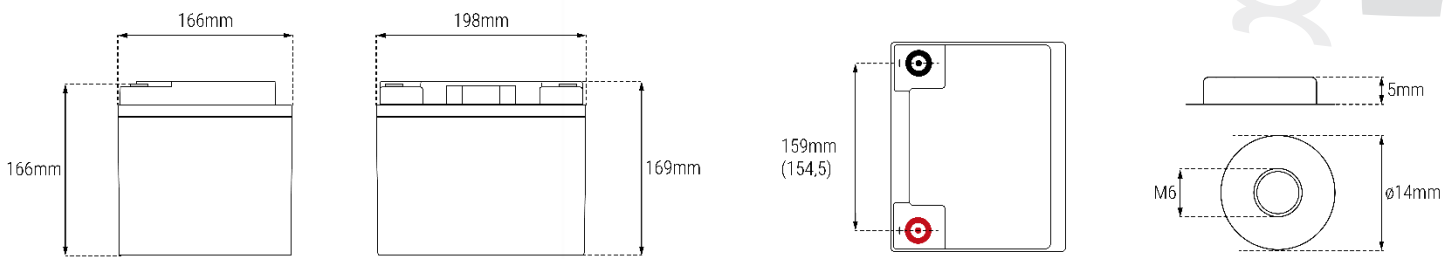


SOLARX™ Series. Baterías solares

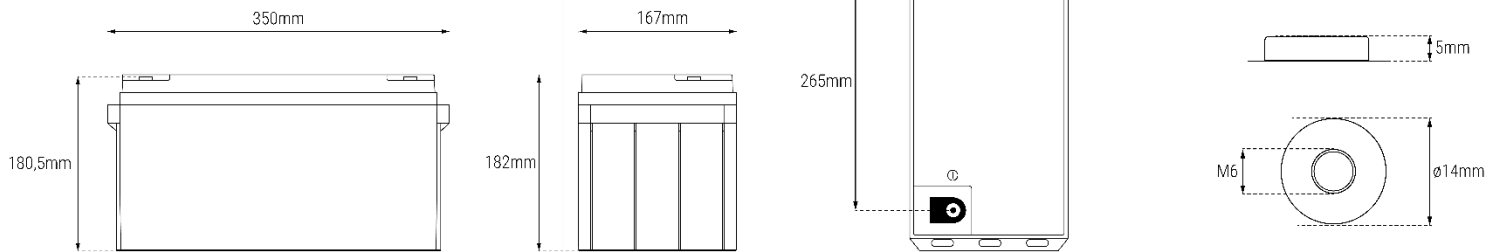
Planos

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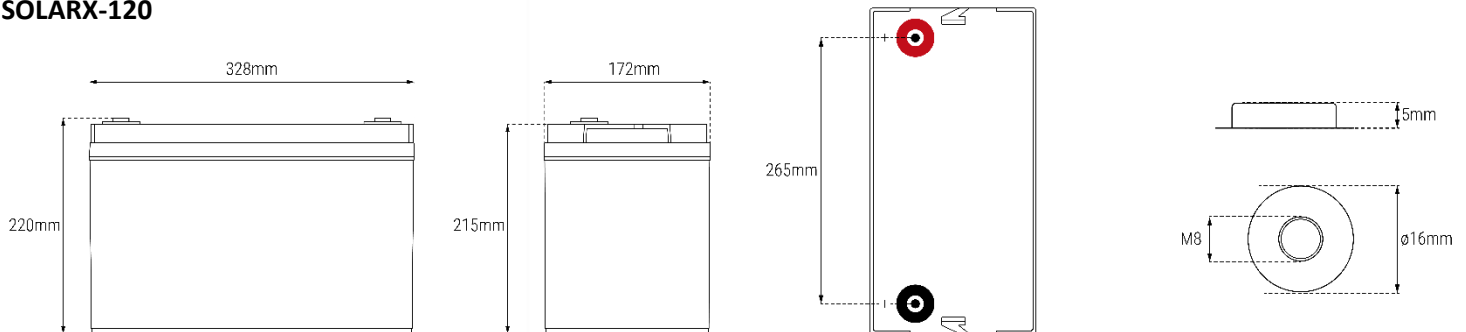
SOLARX-48



SOLARX-78



SOLARX-120



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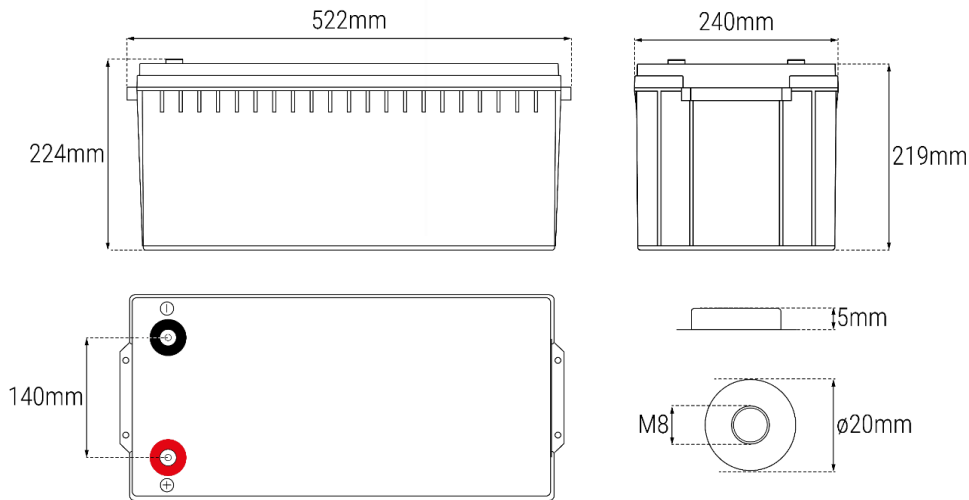


SOLARX™ Series. Baterías solares

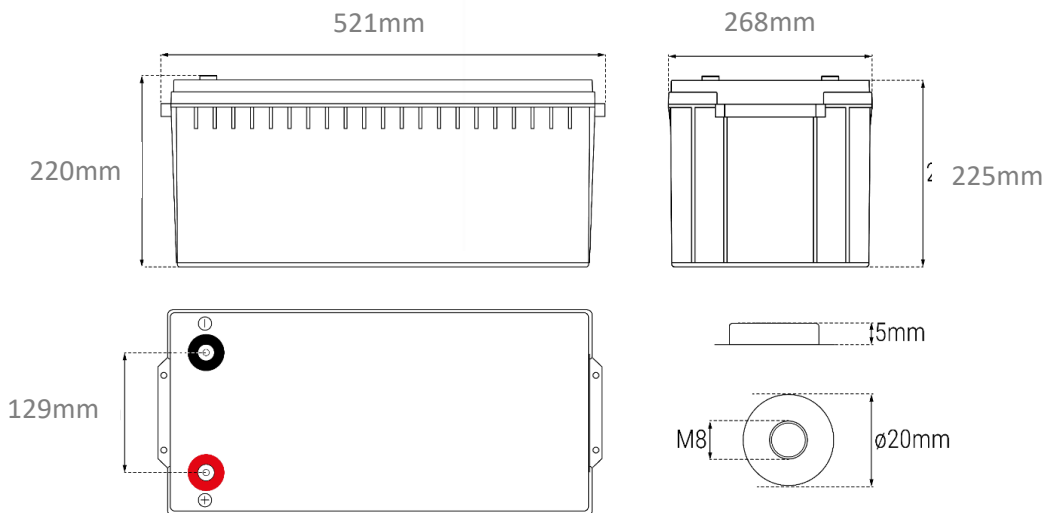
Planos

Unidades: mm

SOLARX-240



SOLARX-260



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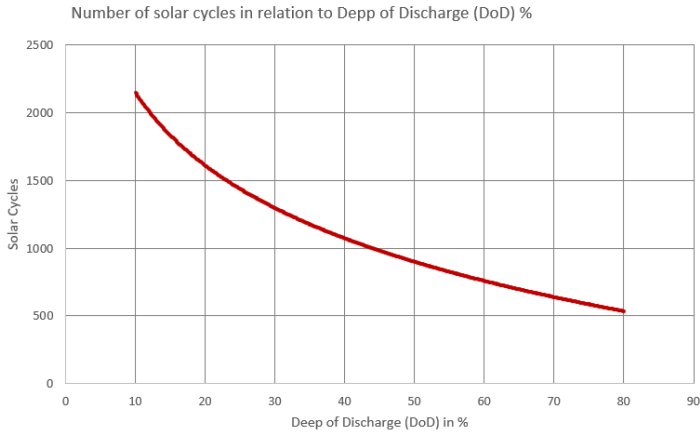
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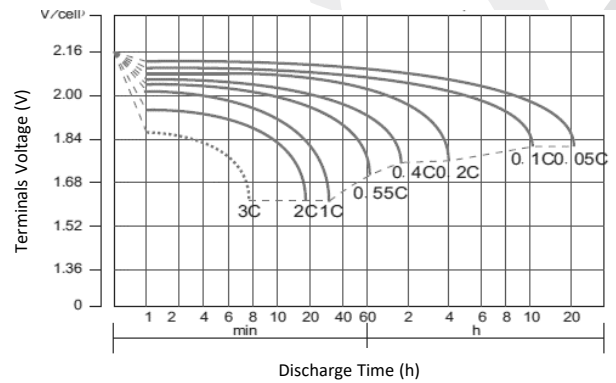


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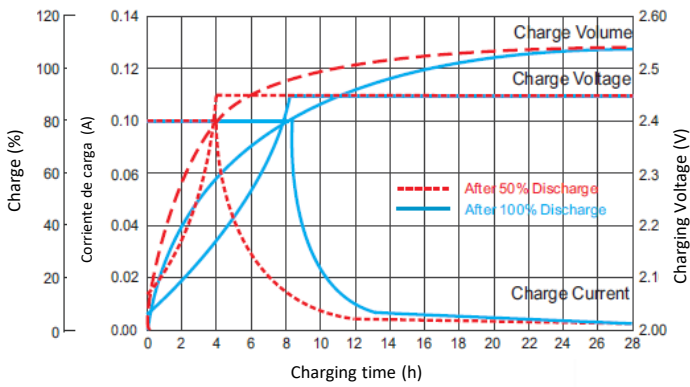
Number of solar cycles in relation to Deep of Discharge (DoD) %
Cycles IEC61427: 2000 cycles



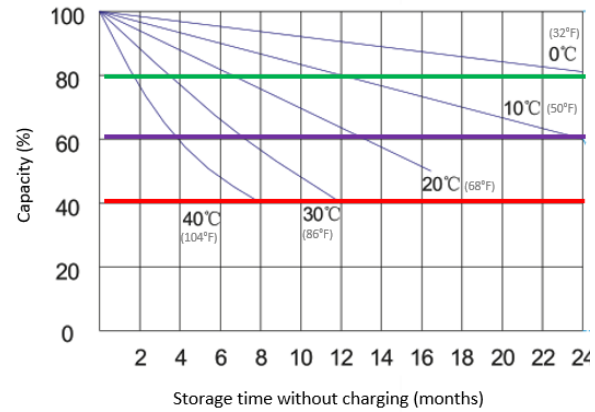
Discharge Curves
Temperature 25°C (77°F)



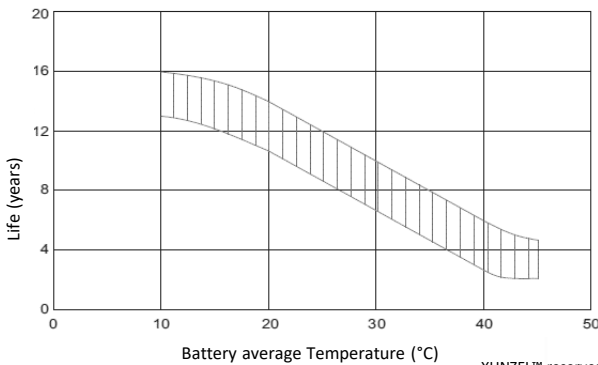
Charging curves
Temperature 25°C (77°F)



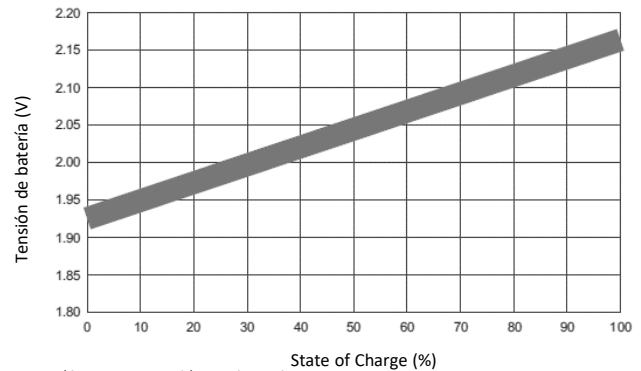
Guide and Curves Characteristics Auto-Discharge for storage and charge.
Monthly average temperature. Auto-discharge: approx. 2.5-3% per month at 20°C (68°F)



Temperature effect on battery life



Battery voltage function State of Charge (%)



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