

# SOLARX-Lithium™ Series. Baterías solares recargables de Lito seguras



SOLARX-Lithium Series



SOLARX-Lithium 240-24

Display: Estado de Carga-SOC y T<sup>°</sup>  
(SOLARX-Lithium-240-24)



©COPYRIGHT XUNZEL™ se reserva el derecho a hacer modificaciones y mejoras sin previo aviso.

## SOLARX-Lithium™ Series - XUNZEL

Baterías de litio recargables (LiFePO<sub>4</sub>) de última generación con BMS integrado específicamente diseñadas y fabricadas para sistemas solares fotovoltaicos aislados, mini eólicos y de respaldo y para alimentar equipos electrónicos, de telecomunicaciones e IoT/IIoT.

De respuesta rápida y permiten carga ultrarrápida. Diseño optimizado para tener más energía en sistemas aislados.

**Especialmente diseñadas para una carga óptima y rápida en sistemas solares aislados y para reemplazar directamente las tradicionales baterías de ácido-plomo AGM/GEL selladas.**

### Características



#### Baterías de Litio LiFePO<sub>4</sub> (LFP, Li-iron, Li-Fe) Seguras Con BMS integrado

##### Rendimiento Superior

- Más Energía
- Más Rápidas y Potentes
- Más Ciclos y Vida útil
- Mayor rango de temperatura de funcionamiento
- Muy baja auto-descarga
- Muy ligeras



##### Seguridad Superior

- Sin Mantenimiento
- Selladas. IP56
- Total seguridad y certificadas para cualquier transporte.
- Multi-posición (se pueden instalar en cualquier posición)
- BMS- Battery Management System Integrado
- Protecciones Completas Integradas
- Respetuosas con medio ambiente

### Modelos

SOLARX-Lithium-5-6	(29Wh - 6.4V)
SOLARX-Lithium-5-12	(58Wh - 12.8V)
SOLARX-Lithium-8-12	(96Wh - 12.8V)
SOLARX-Lithium-14-12	(154Wh - 12.8V)
SOLARX-Lithium-30-12	(333Wh - 12.8V)
SOLARX-Lithium-48-12	(512Wh - 12.8V)
SOLARX-Lithium-120-12	(1280Wh - 12.8V)
SOLARX-Lithium-120-24-C	(1280Wh - 25.6V)
<i>(modelo con puerto comunicación serie UART-485)</i>	
SOLARX-Lithium-240-24	(2400Wh - 25.6V)



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



© Copyright Xunzel. Information contained in this document is subject to change without notice.

# SOLARX-Lithium™ Series. Baterías solares recargables de Lito seguras

Model	SOLARX-Lithium-5-6	SOLARX-Lithium-5-12	SOLARX-Lithium-8-12	SOLARX-Lithium-14-12	SOLARX-Lithium-30-12	SOLARX-Lithium-48-12	SOLARX-Lithium-120-12	SOLARX-Lithium-120-24-COM (UART 485)	SOLARX-Lithium-240-24
Code   Order Part Number	SOLARXL56	SOLARXL512	SOLARXL812	SOLARXL1412	SOLARXL3012	SOLARXL4812	SOLARXL12012	SOLARXL12024C	SOLARXL24024
Chemistry	Lithium Iron Phosphate – LFP - LiFePO <sub>4</sub>								
Battery Type	Rechargeable - Secondary – With No Memory Effect								
Average Service Life	15 years (at 25°C)								
Nominal Voltage	6.4V	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V	25.6V	25.6V
Rated Capacity	29Wh	58Wh	96Wh	154Wh	333Wh	512Wh	1280Wh	1280Wh	2400Wh
Internal Resistance	≤ 30-40mΩ								
Efficiency	99%								
Cycle Life @ 1C – 100%DoD / 30%DoD	>2000 cycles / >8000 cycles								
Self Discharge	< 2% in 30 days								
Maximum batteries in Series/Parallel	4S/20P	4S/20P	4S/20P	4S/20P	4S/20P	4S/20P	4S/20P	2S/20P	2S/20P
Dimensions (mm)	70 x 47 x 101	90 x 70 x 101	151 x 65 x 94	151 x 98 x 95	166 x 175 x 125	197 x 165 x 170	330 x 173 x 212	330 x 173 x 212	522 x 240 x 224
Net Weight (kg)	0.34	0.75	1.1	1.7	4.2	5.75	13.60	13.60	29.60
Case   Terminal	IP56. ABS, UL-94-V0   F1		IP56. ABS, UL-94-V0   T1	IP56. ABS, UL-94-V0   T2	IP56. ABS, UL-94-V0   M5	IP56. ABS, UL-94-V0   M6	IP56. ABS, UL-94-V0   M8		
Charge Method	Method: CC-CV								
Charge Voltage	7.2~ 7.4V	14.4~ 14.8V	14.4~ 14.8V	14.4~ 14.8V	14.4~ 14.8V	14.4~ 14.8V	14.4~ 14.8V	28.8~ 29.6V	28.8~ 29.6V
Recommended Float Voltage	6.9V	13.8V	13.8V	13.8V	13.8V	13.8V	13.8V	27.6V	27.6V
Recommended/Maximum Charge Current	2A / 4.5A	2A / 2.5A	4A / 7.5A	6A / 12A	20A / 30A	20A / 40A	50A / 100A	25A / 50A	50A / 100A
BMS Charge Cut-off Voltage	7.8V ± 0.1V	15.6V ± 0.2V	15.6V ± 0.2V	15.6V ± 0.2V	15.6V ± 0.2V	15.6V ± 0.2V	15.6V ± 0.2V	31.2V ± 0.2V	31.2V ± 0.2V
Continuous Discharge Current	4.5A	5A	15A	24A	30A	70A	100A	50A	100A
Charge Temperature	0° to 50°C								
Pulse Discharge Current	8A (<3 seconds)	12A (<10 seconds)	20A (<3 seconds)	30A (<3 seconds)	40A (<3 seconds)	80A (<3 seconds)	500A (<5 seconds)	100A (<3 seconds)	200A (<3 seconds)
Recommended Voltage Disconnect	4.6V	10V	10V	10V	10V	10V	10V	20V	20V
BMS Discharge Cut-off Voltage	4V	8V	8V	8V	8V	8V	8V	16V	16V
Reconnect Voltage	4.6V	9.2V	9.2V	9.2V	9.2V	9.2V	9.2V	18.4V	18.4V
Short Circuit Protection	200~600 μs								
Discharge Temperature	-30° to 65°C								
Storage Temperature	-40° to 65°C								
BMS High T° Cut-off	80°C								
Compliance   Shipping Class	CE   UKCA   UL   RoHS3 and REACH Compliant   WEEE Compliant   IEC62133, UL1642   UN3480, Class 9, UN38.3								

©COPYRIGHT XUNZEL™ se reserva el derecho a hacer modificaciones y mejoras sin previo aviso.

XU-2230118MA

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

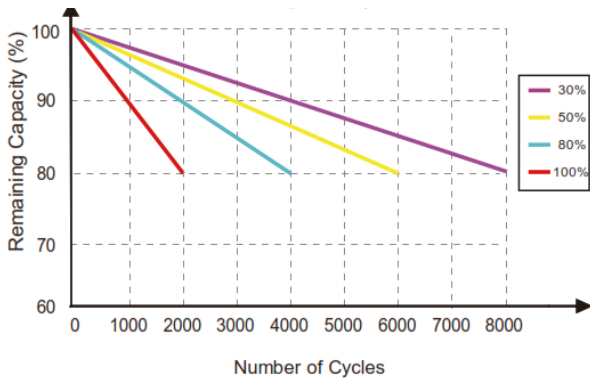


The design and all photos and drawings on these sheets are protected by law and may not be distributed or reproduced, in whole or in part, or published or used for any purpose without the express written consent of XUNZEL. XUNZEL - Xunzel is not responsible for any typographical errors. Specifications subject to change without notice.

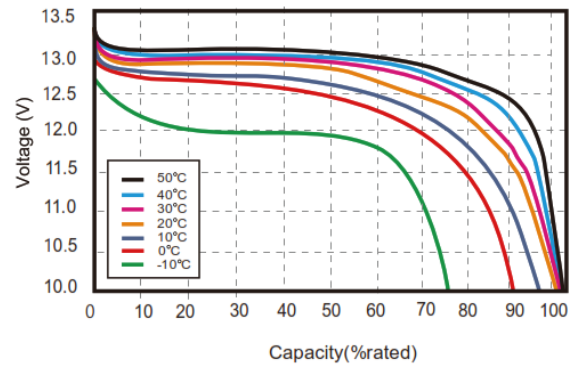
# SOLARX-Lithium™ Series. Baterías solares recargables de Lito seguras

## Especificaciones – modelos 12V

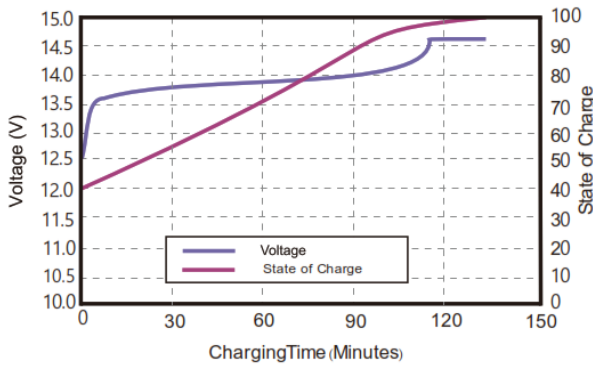
CICLOS DE VIDA vs. PROFUNDIDAD DE DESCARGA (DoD)  
Descarga a 0.1C, 25°C



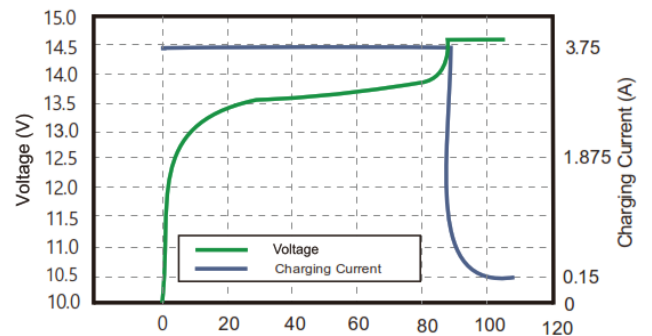
CAPACIDAD DESCARGA a VARIAS TEMPERATURAS DE DESCARGA  
Descarga a 1C



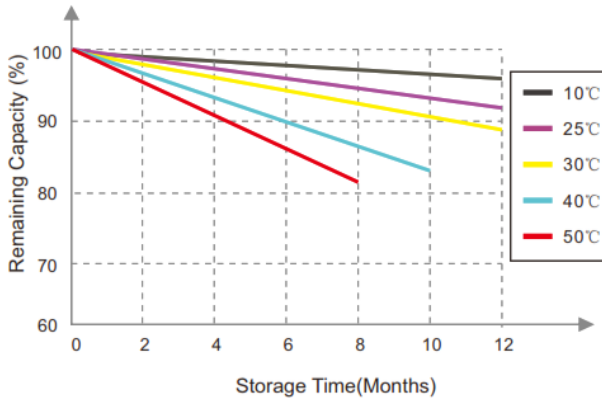
ESTADO DE CARGA a 0.5C, 25°C



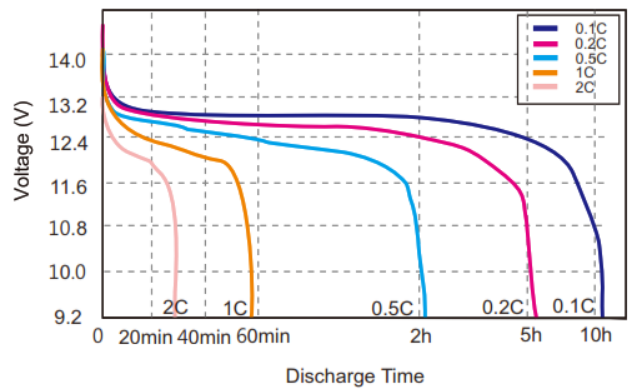
CARACTERISTICAS DE CARGA a 0.5C, 25°C



CURVA AUTO-DESCARGAR A DIFERENTES TEMPERATURAS



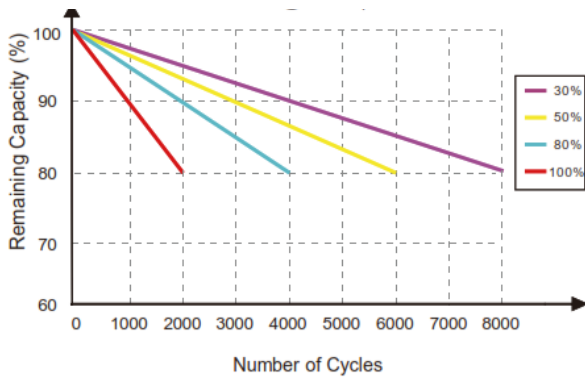
RITMO DE DESCARGAR a 25°C



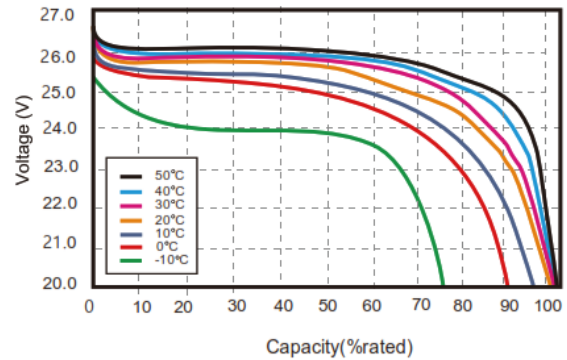
# SOLARX-Lithium™ Series. Baterías solares recargables de Lítio seguras

## Especificaciones – modelos 24V

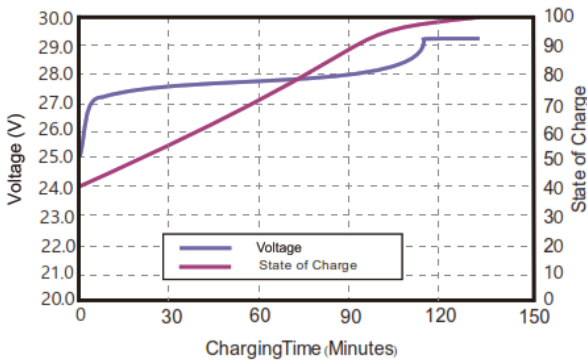
CICLOS DE VIDA vs. PROFUNDIDAD DE DESCARGA (DoD)  
Descarga a 0.1C, 25°C



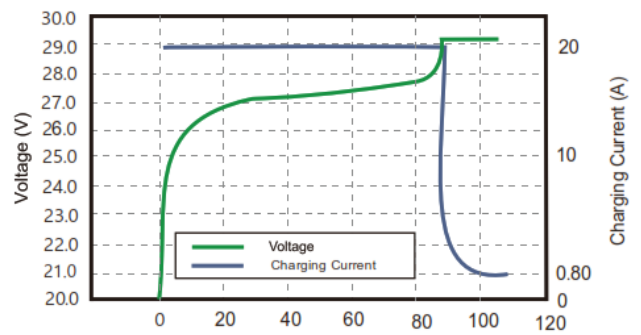
CAPACIDAD DESCARGA a VARIAS TEMPERATURAS DE DESCARGA  
Descarga a 1C



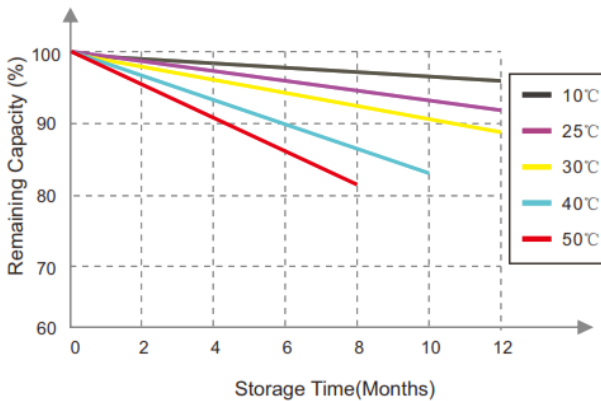
ESTADO DE CARGA a 0.5C, 25°C



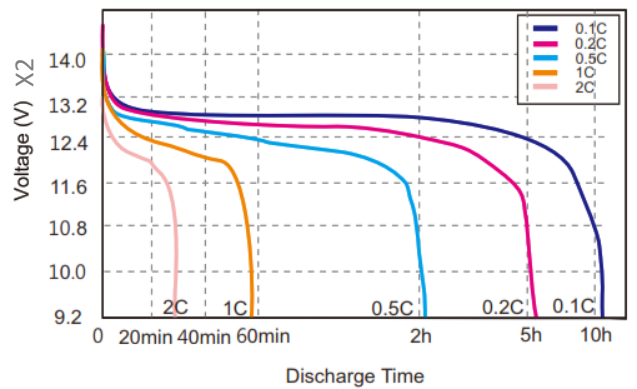
CARACTERÍSTICAS DE CARGA a 0.5C, 25°C



CURVA AUTO-DESCARGAR A DIFERENTES TEMPERATURAS



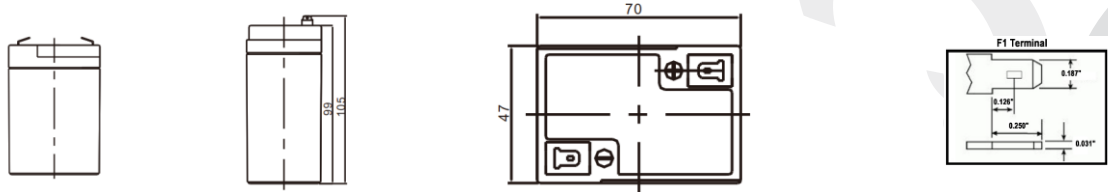
RITMO DE DESCARGAR a 25°C



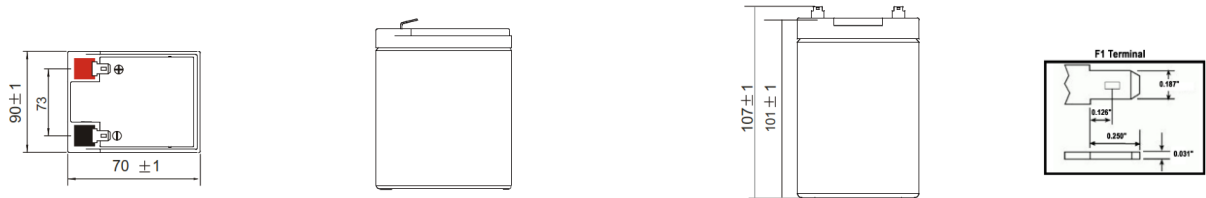
## SOLARX-Lithium™ Series. Baterías solares recargables de Lito seguras

### Dimensiones (mm)

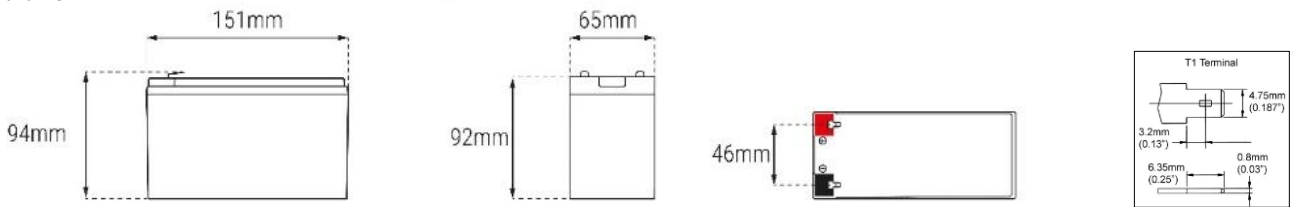
SOLARX-Lithium-5-6



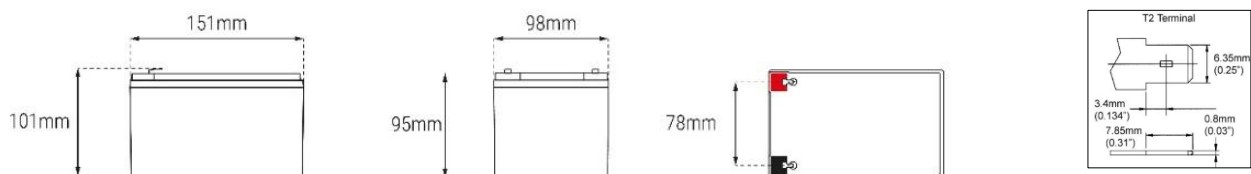
SOLARX-Lithium-5-12



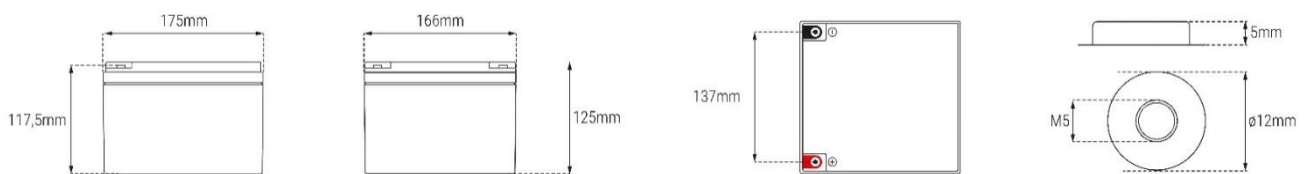
SOLARX-Lithium-8-12



SOLARX-Lithium-14-12



SOLARX-Lithium-30-12



©COPYRIGHT XUNZEL™ se reserva el derecho a hacer modificaciones y mejoras sin previo aviso.

XU-2230118MA

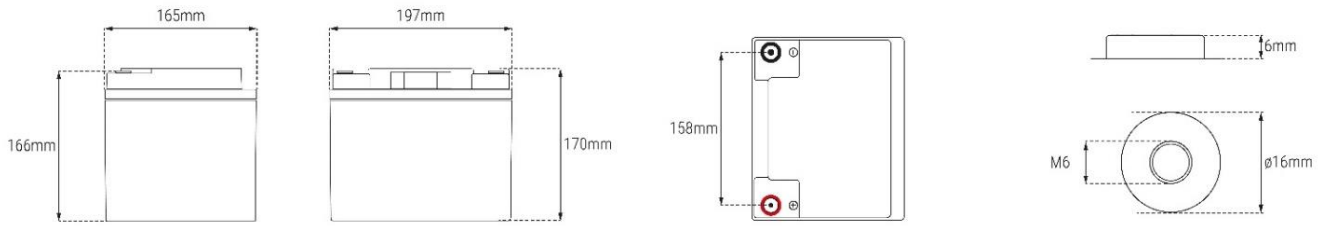
Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications



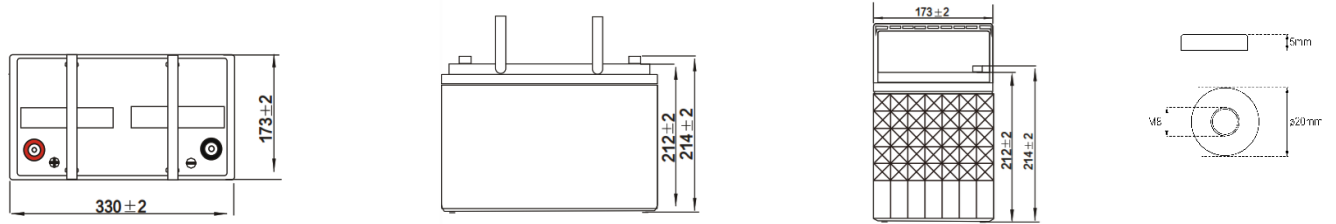
# SOLARX-Lithium<sup>TM</sup> Series. Baterías solares recargables de Lítio seguras

## Dimensiones (mm)

SOLARX-Lithium-48-12



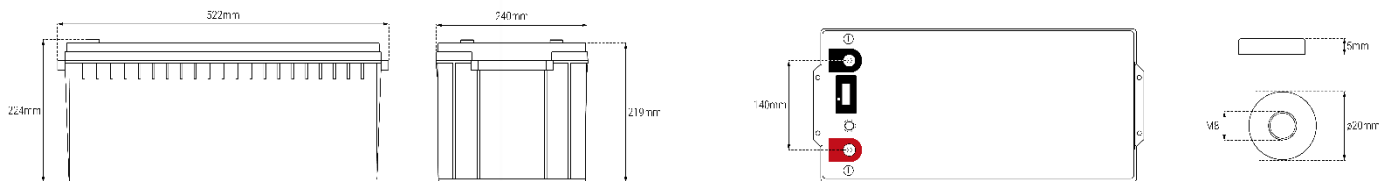
SOLARX-Lithium-120-12  
SOLARX-Lithium-120-24-C



Conector SOLARX-Lithium-120-24-C



SOLARX-Lithium-240-24



# SOLARX-Lithium™ Series. Baterías solares recargables de Lito seguras

## SOLARX-Lithium-5-6

Code | Order Part Number: SOLARXL56



## SOLARX-Lithium-5-12

Code | Order Part Number: SOLARXL512



## SOLARX-Lithium-8-12

Code | Order Part Number: SOLARXL812



## SOLARX-Lithium-14-12

Code | Order Part Number: SOLARXL1412



## SOLARX-Lithium-30-12

Code | Order Part Number: SOLARXL3012



## SOLARX-Lithium-48-12

Code | Order Part Number: SOLARXL4812



©COPYRIGHT XUNZEL™ se reserva el derecho a hacer modificaciones y mejoras sin previo aviso.

XU-92220422-MA

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



# SOLARX-Lithium™ Series. Baterías solares recargables de Lítio seguras

**SOLARX-Lithium-120-12**

Code | Order Part Number: SOLARXL12012



**SOLARX-Lithium-120-24-COM**

Code | Order Part Number: SOLARXL12024C

**SOLARX-Lithium-120 / 24V COMM  
UART/485 Communications Protocol**



**SOLARX-Lithium-240-24**

Code | Order Part Number: SOLARXL24024



©COPYRIGHT XUNZEL™ se reserva el derecho a hacer modificaciones y mejoras sin previo aviso.

XU-92220422-MA

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

