





Solar Kit proposed allows to provide a source of electricity to homes and communities without access to electricity in a reliable and safe way.

Main features:

- Portable and easy to install "Plug and play"
- It incorporates LEAD Carbon battery of high cycling and performance, maintenance free.
- Includes USB ports for charging mobile phones.
- Connector for LED lamps 12 Vdc and DC/DC converter to use DC electric devices.

Solar Module	Battery AGM Lead Carbon	Control Unit	12 Vcc& DC/DC	USB 5V&Display	ProtectionDevices
					
<p>1 x SolarModule Poly130 / 150 Wp</p>	<p>1 x Battery AGM REXC70 30% DoD.- 8000 cicles 70 % DoD.- 2200 cicles</p>	<p>1 x Control Unit 1 x DC/DC converter</p>	<p>DC connector to DC LED lamp</p> 	<p>2 x USB 5 V andDisplay</p>	<p>DC Protection Breakers ON/OFF Indicator</p>





12REXC70



Feature

- Design life 20 years
- Combine the advantage of lead acid battery and supercapacitor
- Ideal for PSOC cycle application
- High power, rapid charge/discharge
- Reduce sulfation of negative plate, excellent recharge acceptance performance
- Waterproof, anti-salt treatment, shockproof module installation design
- Comply with IEC60896, IEC61427 etc. standard

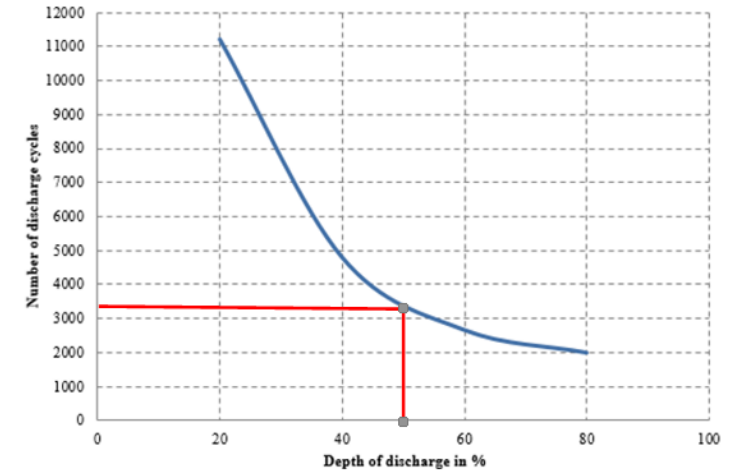
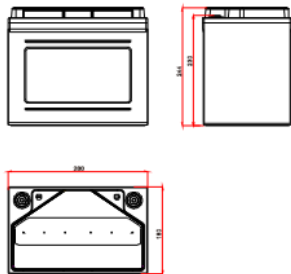
Application

- Home energy storage system
- Smart power grids and microgrid system
- Distributed energy storage system
- Hybrid energy storage system such as solar and wind
- Solar power generation grid/off-grid energy storage system
- Emergency lighting system
- Generator and battery hybrid energy system
- Other standby, cycling system

Parameter

Nominal Voltage	12V
Capacity	70Ah (100hr to 1.85V/cell @25°C)
	60Ah (10hr to 1.80V/cell @25°C)
Typical Weight	30kg
Internal Resistance	Approx 9.79mΩ (acc. to IEC60896-21 clause 6.3)
Short-Circuit Current	1291A
Self Discharge	Residual capacity is above 90% after 90 days storage(25°C)
Temperature Ranges	Operation(recommended): 15°C~25°C
	Operation(maximum): -20°C~50°C
Max. charging current	18A
Max. constant charging current	12A
Charge Voltage	Floating: 2.25V/cell(25°C)
	Equalizing/Cycle: 2.30V/cell(25°C)
Terminal	M8 embedded copper
Terminal Hardware Torque	>10N.m

Dimension



Graph 1, Cycle life vs. DOD of REXC(2V&12V) Series with Ideal Charge Model

Table 1, data of cycle number

	Depth of Discharge/DOD			
	20%	40%	60%	80%
Cycle life	11200	4800	2700	2000

Design life vs temperature

