

LITHIUM BATTERY LiFePO4

SAUCO

ILFPOS-3072
ILFPOS-3840



Features:

- The battery adopts LiFePO4 as the cathodic material; the life cycle of LiFePO4 cells can reach up to 4,000 cycles at 80% DOD, and 5,000 cycles at 60% DOD at nominal temperature
- The system adopts high performance BMS, battery management module. The BMS has the function of protection in current, voltage and temperature, also enables communication between the battery and the main equipment of the system.
- The monitoring unit will automatically measure the battery charge and discharge current, charge or discharge voltage and surface temperature of a single cell.
- Shutdown function. An alarm will go off if the battery voltage is lower than the value set in the alarm; when the voltage is too low, the battery will be protected by automatically shutting down the equipment.
- Over current, overload, over discharge, over temperature and short-circuit protection

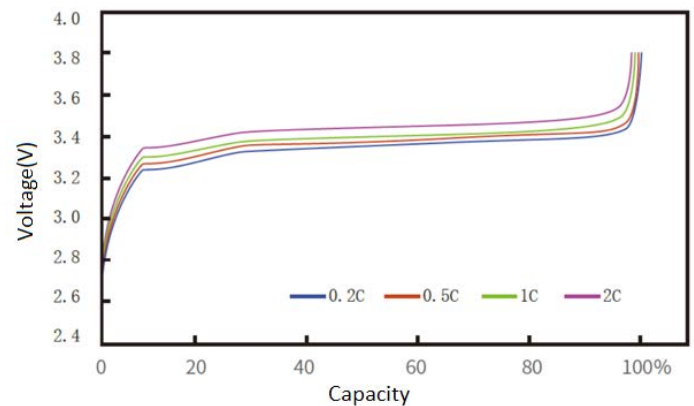
LITHIUM GENERATION

Inti's Saucó is a maintenance-free Lithium Ion LiFePO4 battery with a diverse range of nominal capacities at 25.6Vdc and a lifetime of 4,000 cycles at 80% DOD and 25°C. The customized battery charging system with integrated intelligent BMS with temperature protection, allows for extended battery

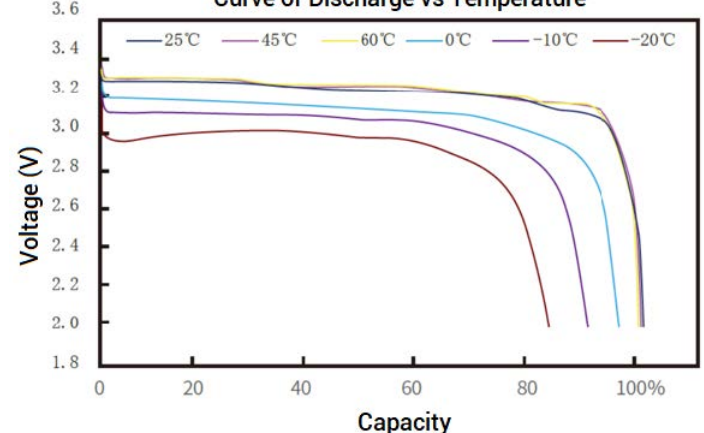
The Saucó battery is lightweight, easy to transport and very efficient in terms of storage capacity per volume. It has a multi-layer manufacturing system that makes it a highly durable battery under extreme conditions of use. The technology used for connection between cells is safe, stable and highly efficient. In addition, they are manufactured with high quality and long lasting alloy.

The integrated BMS is a central hub within the battery that maintains constant voltage, current and temperature and also allows maximum charging capacity for fast charging and efficient discharge.

Load Curve at different C



Curve of Discharge vs Temperature



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LITHIUM GENERATION



	ILFPOS-3072	ILFPOS-3840
Nominal voltage	25,6Vdc	25,6Vdc
Nominal capacity	120Ah	150Ah
Nominal powerl	3,072Kwh	3,84Kwh
Rated load voltage	29,2Vdc ± 1V	29,2Vdc ± 1V
Floating charge voltage	28,4Vdc ± 1V	28,8Vdc - 30V
Maximum charging voltage	29,2Vdc ± 0,4V	29,2Vdc ± 0,4V
Overload protection	28,4Vdc ± 1V	28,4Vdc ± 1V
Over-discharge protection	20Vdc ± 1V	20Vdc ± 1V
Rated load current @RT	≤50A	100A
Maximum load current @RT	100A	100A
Overload protection release	Restart	Restart
Output voltage range	20,0~29,2Vdc	20,0~29,2Vdc
Charging method	CC & CV	CC & CV
Maximun discharge current	100A	100A
Monthly self-discharge protection release	≤3 % with SOC<50% to 25°C, 1000msnm, RH55%	≤3 % with SOC<50% to 25°C, 1000msnm, RH55%
Over-discharge protection release	Load shut-down and restart	Load shut-down and restart
Charging temperatures	0~50°C, (RT=25°C)	0~50°C, (RT=25°C)
Discharge temperature range		-20~60°C(RT=25°C)
Storage Temperarture	-20~60°C(RT=25°C) Less 1 month: -20~60°C More 3 month: -10~45°C	Less 1 month: -20~60°C More 3 month: -10~45°C
Storage Humidity	45~75%RH	45~75%RH
Storage SOC	60-75%	60-75%
Internal resistance	≤ 9mΩ	≤ 9mΩ
Cooling method	Natural convection	Natural convection
Dimensions (HxWxD)	520x267x220mm	635x373x315mm
Net weight	22kg	43kg