

LiFePO4 BATTERY

XMB-LiFe-12.8/100AH & 200AH

XMB-LiFe is a family of batteries based on LiFePO4 cells technology designed for deep discharging application intended to replace common VRLA and GEL 12V batteries. Designed to comply with most exigent worldwide standards of quality, safety, and performance, using top of the line technology. This battery series comes with a set of powerful options and reliable protections systems. It is equipped with internal BMS hardware for controlling and protecting the battery. USB-RJ45 communication port is available to function as an interface to monitor and configure battery parameters from a PC. ON/OFF push button switch allows operator to power on/off the battery.

Battery includes protection systems for: Overcharging, Overdischarging, Overcurrent, Shortcircuit and Low & High temperature.

XMB-LiFe is a 100% maintenance-free battery able to operate during long time from 0 °C up to +50 °C and manage more than 3750 charge/discharge cycles (100% DOD & 70% EOL @25 °C, 0.5C/0.5C). It is UN38.3 and CE certified product.

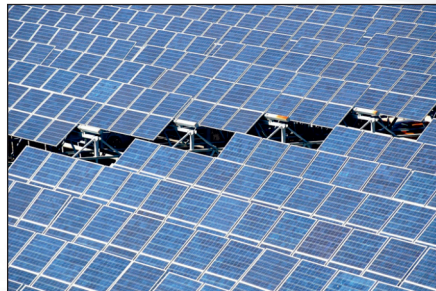


APPLICATIONS

Telecommunications



Solar Systems



UPS Systems



FEATURES

- LiFePO4 Long life cells technology
- Integrated BMS & Communication port
- ON/OFF push button & status LED interface
- Multiple protection system:
 - OCP, ODP, Shortcurrent, Low & Hi Temp., etc.
- Parallel: up to 4 sets
- UN38.3 & CE certified

BENEFITS

- Lifetime: Cycles >3500 (100% DOD 0.5C at 25°C)
- Operating Temperature (without heater):
 - Charge: 0 to +50°C
 - Discharge: -20 to +55°C
- Reduced size & light weight
- High impact case: ABS+PC
- IP65 class (for models without comm. port)

LiFePO4 - MAINTENANCE-FREE BATTERY

12.8V - 100AH (1280Wh)

Xmart
by Integra

Model: V0 (Version without communication Options /Versión sin opciones de comunicación)

TECHNICAL SPECIFICATIONS / Especificaciones Técnicas

Nominal Voltage	12.8V	
Nominal Capacity	100AH	
Total Energy	1280Wh	
Dimensions	Lenght:	229 ± 2mm
	Width:	138 ± 2mm
	Container Height:	210 ± 2mm
	Total Height (with terminals):	220 ± 2mm
Approx Weight	Approx. 9.9 Kg (21.8 lbs)	
Terminal	T12 (M8 bolt)	
Container Material	ABS+PC	
Max. Charging Current	100A	
Recommended Charging Current	50A	
Charging Voltage	Bulk Voltage (Max.)	14.2 V
	Floating Voltage	14.2 V
Max. Discharging Current	100A	
End of Discharging Voltage	11.2V DC	
Operating Temperature Range	Discharge:	-20°C to 55°C (-4 to 131°F)
	Recharge:	0°C to 50°C (32 to 122°F)
Storage Temperature	-40°C to +60°C	
	When storing at 25°C: Recharge every year	
	When storing at 40°C: recharge every 3 months	
Humidity	0 to 95% (non condensing)	
Life in Cycles (25°C,0.5C,EOL 70%)	>4000 cycles (90% DOD), >3.750 cycles (100% DOD)	
Life span	> 10 years	



APPLICATIONS / Aplicaciones

Telecommunications
Solar Systems
Wind Power Systems
Engine Starting
Wheelchairs
Floor cleaning machines
Gold trolley
Boats

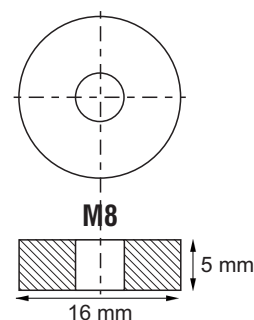
BMS: Battery Management System

BMS	Hardware BMS integrated
	Bluetooth internal module: Not supported in V0
Human Interface	RJ45-USB communication port: Not supported in V0
	ON/OFF push button: Not supported in V0
Protections	LED: Not supported in V0
	Over-charge, Over-discharge, Over-current, Short-circuit
Connection Capabilities	High-temperature, Low-temperature
	Up to 4 sets in parallel
	Up to 4 units in series

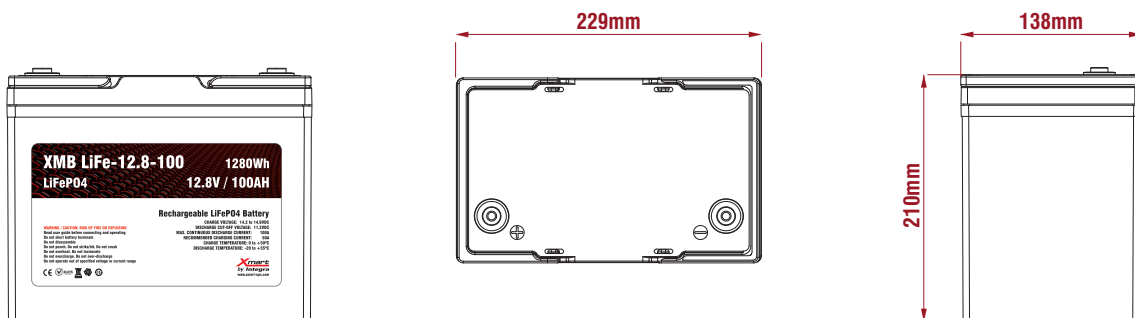
CERTIFICATIONS

IP Class	IP65
Safety	UN38.3 & CE

TERMINAL T12 / Terminal T12



DIMENSIONS / Dimensiones



LIFEP04 P2

LiFePO4 - MAINTENANCE-FREE BATTERY

12.8V - 100AH (1280Wh)

Xmart
by **Integra**

Model: V1 (Version with all communication options / Versión con todas las opciones de comunicación)

TECHNICAL SPECIFICATIONS / Especificaciones Técnicas

Nominal Voltage	12.8V	
Nominal Capacity	100AH	
Total Energy	1280Wh	
Dimensions	Lenght:	260 ± 2mm
	Width:	168 ± 2mm
	Container Height:	210 ± 2mm
	Total Height (with terminals):	220 ± 2mm
Approx Weight	Approx. 10 Kg (22 lbs)	
Terminal	T12 (M8 bolt)	
Container Material	ABS+PC	
Max. Charging Current	100A	
Recommended Charging Current	50A	
Charging Voltage	Bulk Voltage (Max.)	14.2 V
	Floating Voltage	14.2 V
Max. Discharging Current	100A	
End of Discharging Voltage	11.2V DC	
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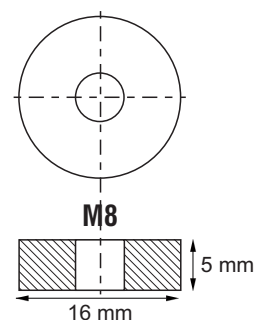
BMS: Battery Management System

BMS	Hardware BMS integrated
	Supports bluetooth internal module (model V1)
	Supports RJ45-USB communication port (model V1)
Human Interface	ON/OFF push button LED: Battery Level (25%/50%/75%/100%); ON/OFF; ALARM
Protections	Over-charge, Over-discharge, Over-current, Short-circuit High-temperature, Low-temperature
Connection Capabilities	Up to 4 sets in parallel
	Up to 4 units in series

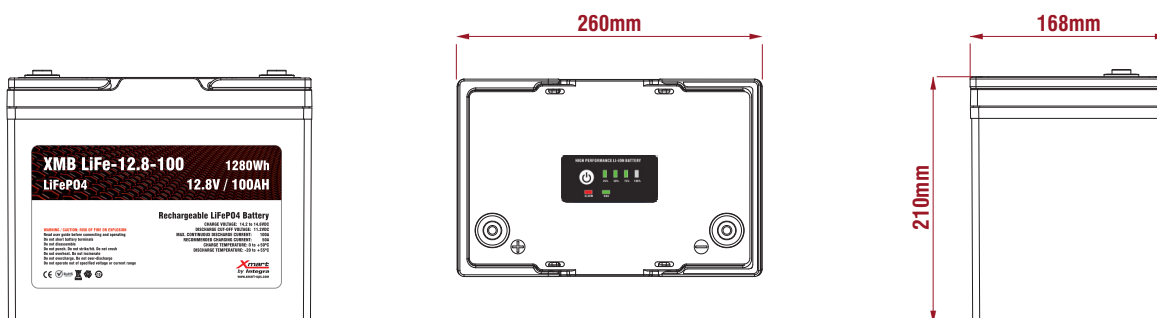
CERTIFICATIONS

IP Class	IP65 for non communication port model IP30 for communication port (model V1)
Safety	UN38.3 & CE

TERMINAL T12 / Terminal T12



DIMENSIONS / Dimensiones



LIFEPO4 P3

LiFePO4 - MAINTENANCE-FREE BATTERY

12.8V - 200AH (2560Wh)

Xmart
by Integra

Model: V1 (Version with all communication options / Versión con todas las opciones de comunicación)

TECHNICAL SPECIFICATIONS / Especificaciones Técnicas

Nominal Voltage	12.8V	
Nominal Capacity	200AH	
Total Energy	2560Wh	
Dimensions	Lenght:	522 ± 2mm
	Width:	240 ± 2mm
	Container Height:	219 ± 2mm
	Total Height (with terminals):	224 ± 2mm
Approx Weight	Approx. 20.5 Kg (45 lbs)	
Terminal	T12 (M8 bolt)	
Container Material	ABS+PC	
Max. Charging Current	200A	
Recommended Charging Current	100A	
Charging Voltage	Bulk Voltage (Max.)	14.2 V
	Floating Voltage	14.2 V
Max. Discharging Current	200A	
End of Discharging Voltage	11.2V DC	
Operating Temperature Range	Discharge:	-20°C to 55°C (-4 to 131°F)
	Recharge:	0°C to 50°C (32 to 122°F)
Storage Temperature	-40°C to +60°C	
	When storing at 25°C: Recharge every year	
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Humidity	0 to 95% (non condensing)	
Life in Cycles (25°C,0.5C,EOL 70%)	>4000 cycles (90% DOD), >3.750 cycles (100% DOD)	
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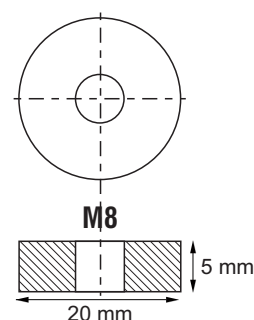
BMS: Battery Management System

BMS	Hardware BMS integrated
	Supports bluetooth internal module (model V1) Supports RJ45-USB communication port (model V1)
Human Interface	ON/OFF push button LED: Battery Level (25%/50%/75%/100%); ON/OFF; ALARM
Protections	Over-charge, Over-discharge, Over-current, Short-circuit High-temperature, Low-temperature
Connection Capabilities	Up to 4 sets in parallel
	Up to 4 units in series

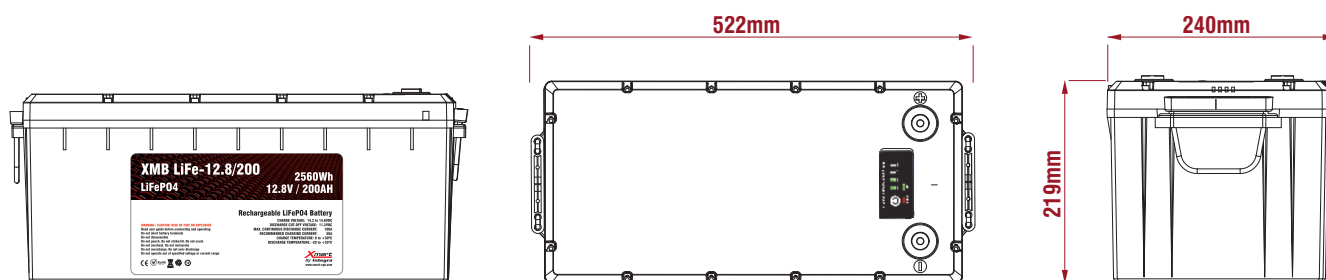
CERTIFICATIONS

IP Class	IP65 for non communication port model IP30 for communication port (model V1)
Safety	UN38.3 & CE

TERMINAL T12 / Terminal T12



DIMENSIONS / Dimensiones



LIFEP04 P4

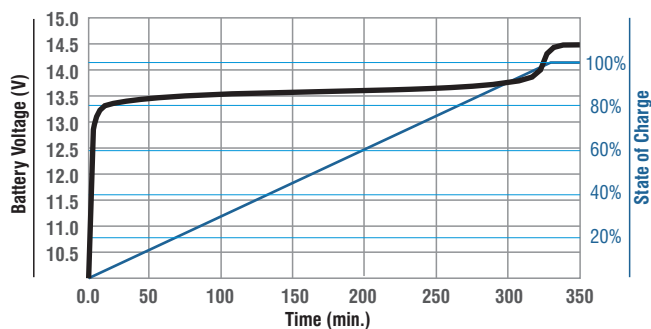
LiFePO₄ - MAINTENANCE-FREE BATTERY

12.8V - 100AH (1280Wh) & 200AH (2560Wh)

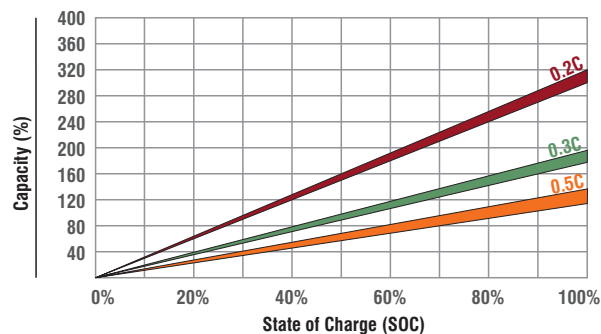
Xmart
by **Integra**

CHARGING & DISCHARGING INFORMATION / INFORMACIÓN DE CARGA Y DESCARGA

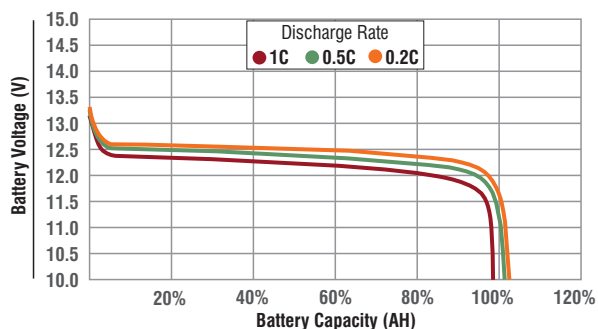
Charging Voltage / Tensión de Recarga (25°C / 0.2C)



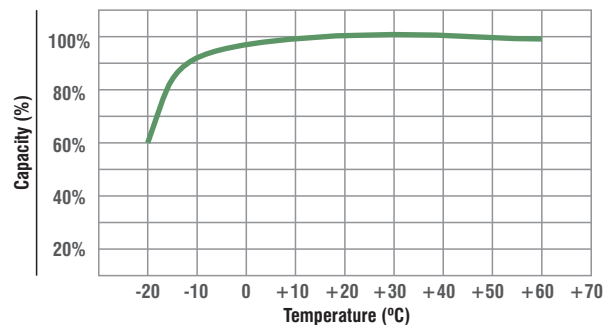
Recharging Time / Tiempo de recarga



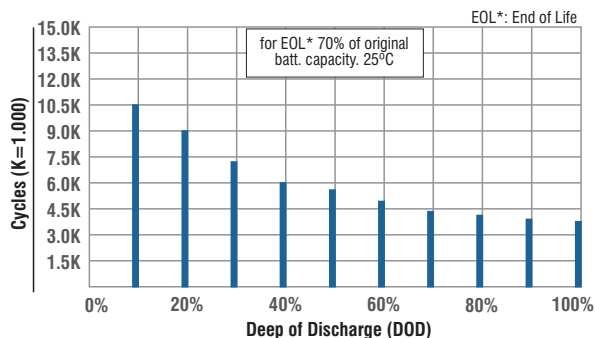
Discharging / Descarga (vs discharge rates @ 25°C)



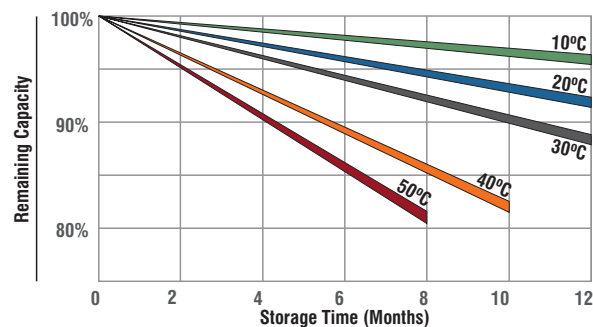
Capacity vs Temperature / Capacidad vs Temperatura



Lifespan in Cycles / Ciclos de carga-descarga (vs DOD)



Self Discharge / Descarga en Almacén (vs Temp. °C)



ON/OFF Pushbutton
State of Charge LEDs

Communication Port

Battery Management System (BMS)

LiFePO4 Cells

ABS+PC Case

The diagram shows an exploded view of the battery pack assembly. At the top left is a black rectangular control unit with a red LED labeled 'ALARM', a green LED labeled 'OK', and four green LEDs labeled '25%', '50%', '75%', and '100%' for state of charge. Below this is a black ABS+PC Case. Inside the case, there is a red BMS (Battery Management System) board, a stack of blue LiFePO4 cells, and a communication port. A black top cover with an ON/OFF pushbutton and state of charge LEDs is shown above the assembly. Orange lines connect the labels to their respective components.

Max. 4 units

COMM.