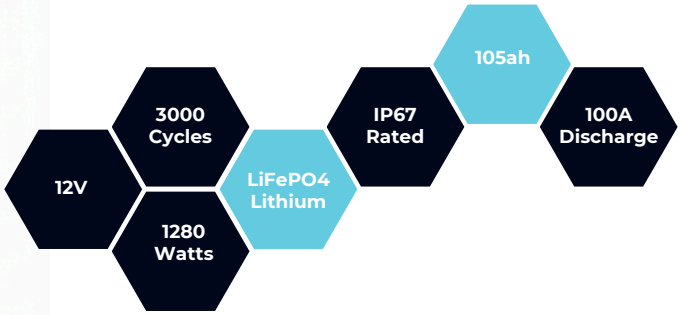
BASE

105AH



BASE XBL12-105



CELL INFORMATION			
Cell Type	Gotion Prismatic	Nominal Voltage	12.8V
Cell Configuration	4S1P	Discharge Cut Off Voltage	10V
Nominal Capacity	105AH	Discharge Temperature Range	-20C to 60C
Energy	1280Wh	Charge Temperature Range	0C to 60C
Cell Chemistry	Lithium Iron Phosphate	Storage	10C to 35C @ 50% SOC
Cell Nominal Voltage	3.2V *4 (12.8V)	Measurements (LxWxH in mm)	260mm x 172mm x 213mm
Cycle Life	3000 @ 80% DOD	Weight	10KG
Maximum Discharge	1C (100A)	Housing Material	ABS Plastic
Maximum Charge	100A	Conformity	UN38.3, ROHS, CE, UL

BMS INFORMATION				
Maximum Discharge	Temperate Protection	OverCurrent Protection	OverDischarge Protection	Max Charging Current
100A	Yes	Yes	Yes	100A

xplorer energy
EVOLVING POWER SOLUTIONS

CE UN38.3

BASE
105AH

BATTERY PERFORMANCE
Lithium Iron Phosphate batteries rely on a chemical reaction, so their performance will naturally degrade over time, even if stored for extended periods without regular use. Additionally, if factors like charging, discharging, and ambient temperature are not kept within the recommended ranges, the battery's lifespan may be reduced, and the device it powers could suffer damage from electrolyte leakage.

If the battery no longer holds a charge for extended periods, despite being properly charged, it may be time to replace it.

STORING YOUR BATTERY
We recommend storing your batteries at room temperature, with a charge level of approximately 30% to 50% of their capacity.

To prevent over-discharge, we suggest charging the batteries at least once every three months.

BATTERY SERIES AND PARALLEL MODE
All 12V batteries can be connected either in series, with four (4) batteries, or in parallel, with sixteen (16) batteries.

CHARGING
Your battery should be charged with a charger specifically designed for lithium iron phosphate batteries.

Bulk Charge : 14.2V - 14.4V
Float Charge :13.5V - 13.8V
Charging Current : up to 100A

TEMPERATURE CONSIDERATIONS
- Charging: This battery lacks an internal heating element for low-temperature operation. To maintain optimal health and longevity, avoid charging the battery when the temperature is below 0°C (32°F).
- Discharging: The Xplorer Energy BASE battery excels in cold environments, offering a discharge temperature range down to -20°C (-4°F).
- JBD BMS Protection: Although charging at low temperatures is not recommended, the integrated JBD BMS protects the battery by blocking charging when the temperature falls below the safe operating range. This safeguard prevents damage from accidental charging in cold conditions.

BATTERY MONITORING
The BASE battery focuses on reliability and longevity rather than Bluetooth connectivity. Although it doesn't feature built-in Bluetooth, you can easily monitor its state of charge (SOC) using two dependable methods:
- Battery Shunt: This hardware device is installed inline with the battery cables, measuring current flow and calculating the remaining capacity based on charged and discharged amp-hours. Shunts provide a straightforward and precise method for monitoring the state of charge (SOC).
- Battery Monitor: This dedicated display unit features a user-friendly interface for monitoring key battery parameters, including state of charge (SOC), voltage, current, temperature, and cycle count. Battery monitors deliver a detailed and comprehensive view of the battery's overall health.

BATTERY SAFETY
- Do not attempt to disassemble the battery.
- Do not short-circuit the battery.
- Do not store batteries in direct sunlight.
- Store the battery in a cool, well-ventilated area.
- Store batteries away from combustible objects and materials..
- Never leave a battery unattended during charging.
- Keep batteries away from static electricity.
- Ensure batteries are kept out of reach from children and pets.
- Avoid immersing the battery in water.
- Do not crush, burn, or alter the battery in any way.
- Use batteries solely as per the manufacturer's specifications.
- Dispose of batteries properly by recycling them.

BATTERY WARRANTY
- Xplorer Energy provides a 6-year warranty on all Xplorer Energy Leisure batteries.
- This warranty is exclusively available to the original owner and is non-transferable.
- Proof of purchase will be required to process any warranty claims or returns.
- If you experience any issues, please contact us promptly at xxxxxxxxxxxxxxxxxxxxxx
- The warranty does not cover damage resulting from gross negligence, normal wear and tear, accidents or collisions, misuse, or improper installation.