

# The new Ultralife URB12450-U1-SMB battery is the prime candidate to power carts and workstations!



Ultralife's new URB12450-U1-SMB ('U1' for short) is the prime candidate for powering carts and workstations in both medical and industrial applications.

When selecting a battery to power a medical or industrial application there will always be multiple candidates to consider. The Ultralife U1's résumé rises to the top of the list, boasting the following job winning attributes...



LiFePO<sub>4</sub>

## A SAFE PAIR OF HANDS

U1 utilises rechargeable Lithium Iron Phosphate (LiFePO<sub>4</sub>) which is widely acknowledged as being one of the safest Lithium battery chemistries on the market.



## FULL OF ENERGY

U1 has a nominal voltage of 12.8V and operates between 14.4V when fully charged & 10.0V when discharged. It has a capacity of 45.6Ah meaning an overall rated capacity of 584Wh - *more than enough energy for a full shift.*



## A HARD WORKER

U1 can be charged and discharged more than 2,000 times before it needs to be replaced which means years of useful work before retirement.



## EXCELLENT COMMUNICATION SKILLS

U1 communicates with a host device via its integrated System Management Bus (SMBus) interface. Devices can request pertinent battery information such as remaining runtime and cycle count for highly accurate power management



## A TEAM PLAYER

U1 is designed to be 'plug and play' when used with inverters from Ametek Powervar and Tripp Lite, which are found in powered medical carts across the US and Europe.



## YEARS OF EXPERIENCE'

U1 has been designed by Ultralife and is built in their established ISO 9001 and ISO 13485 certified facility alongside other mission critical batteries. *Failure is not an option for the U1.*



# ULTRALIFE®

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### BE SMART URB12450



ULTRALIFE'S URB12450-U1-SMB Lithium Iron Phosphate (LiFePO<sub>4</sub>) battery offers incredible performance in a wide range of transportable and stationary applications including medical carts, delivery robots and UPS systems. The inclusion of Ultralife's SMART CIRCUIT™ battery management electronics provides the user with accurate runtime information in addition to a balancing and protection system which maximizes both safety and performance.

The URB12450-U1-SMB is specifically designed to reduce and eliminate heat and failure in mission critical applications. The tough US 949-D flame retardant construction can withstand temperatures up to 150°C (302°F) at all times and, unlike a lead acid battery, the URB12450-U1-SMB can be installed in any orientation and does not require charging in a vented area. When used in a rack application, more than 2,000 cycles are possible, making it a highly fit & forget solution for many applications.

The inclusion of Ultralife's SMART CIRCUIT™ battery management electronics and SMBus communication port allows the device to communicate with the battery via SMBus. Important battery information such as Runtime to Empty (RTE), Relative State of Charge (RSOC) and Cycle Count (CC) is available, making the battery an active part of any host device's power management system.

The URB12450-U1-SMB is qualified for use with medical and military host applications. Ultralife's proven, military-grade lead acid batteries or LiFePO<sub>4</sub> batteries from Ultralife Technology, ensure there is never any compromise.

As a safety precaution, the URB12450-U1-SMB is inherently overvoltage protected, overcharge protected and over temperature with a cell balancing system ensures the most battery life possible in various operating & higher degree of safety, longer runtime per cycle and more cycles over life.

The URB12450-U1-SMB can be continuously discharged at currents of up to 25A, which is ideal for high power motor driven applications. Regulatory compliance is assured in the URB12450-U1-SMB meets the requirements of UL1642, IEC 60335-2-29, IEC 60335-2-29 (Food), IEC 60335-2-29 (Medical) and a certified for FCC (315.3-315.4) (Medical). This allows for easy integration into medical equipment certified to ISO 13485.

OEMs can rest assured that the URB12450-U1-SMB meets the most stringent quality standards as it is manufactured in the USA at Ultralife's NY plant. The battery holds UL 954 (9001) and ISO 13485 registration.

**KEY FEATURES**

- Continuous medical cart inverters from Tripp Lite and Ametek Powervar
- Superior voltage during discharge
- No need for trickle charging to retain charge
- Significantly lighter than SLA batteries with the same weight
- Does not become gassing during use
- Stable voltage over an wide temperature range
- Can be properly charged using a 2 phase AC charger
- IEC 60335-2-29 (Medical)
- SMBus communication interface
- Safe power delivery

**COMMON APPLICATIONS**

- Medical carts
- Escalator inverters
- UPS battery replacement
- Solar power delivery
- Robotics & motor loads

ASSEMBLED IN THE USA

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