

48V 100Ah Rack-Mount LiFePO4 Battery

T48100-3.5U | Industrial & Telecommunications Backup Power



Product Overview

The Headway T48100-3.5U is a 48V 100Ah rack-mount LiFePO4 battery providing approximately 4.8 kWh of nominal energy. Designed for telecommunications, industrial UPS and DC backup systems, it combines integrated battery management, RS485 communication and rack-mount installation for monitored and scalable backup power applications.

Key Features

- 48V nominal voltage and 100Ah capacity
- Approximately 4.8 kWh stored energy
- 3.5U industrial rack-mount format
- Integrated battery management system (BMS)
- RS485 communication interface
- LiFePO4 battery chemistry
- Designed for monitored stationary backup

Applications

- Telecommunications base stations
- Industrial UPS and DC backup
- Network and communications equipment
- Remote monitoring and telemetry systems
- Security and critical communications
- Renewable-energy auxiliary backup
- Industrial control and automation systems

Key Benefits

Reliable Backup Energy

Provides approximately 4.8 kWh of nominal energy for communications and industrial DC systems.

RS485 System Integration

Supports communication with compatible monitoring, control and energy-management systems.

3.5U Rack-Mount Installation

Supports organised installation in compatible telecommunications and industrial cabinets.

Scalable Energy Storage

Parallel expansion can increase total system capacity, subject to Headway-approved configurations.



TECHNICAL SPECIFICATIONS & APPLICATIONS

Technical Specifications

Parameter	Specification
Model	T48100-3.5U
Brand	Headway
Battery Type	LiFePO4
Nominal Voltage	48V
Nominal Capacity	100Ah
Nominal Energy	Approx. 4.8 kWh
Battery Management	Integrated BMS
Communication	RS485
Application	Industrial & Backup Power

System Integration Considerations

- Backup load and runtime requirements
- Rack dimensions and installation space
- Charger and DC system compatibility
- RS485 communication compatibility
- BMS integration and monitoring
- Manufacturer-approved parallel configuration



Why Choose the T48100-3.5U?

- **Long-Cycle Battery Technology**
- **LiFePO4 chemistry supports frequent cycling and long-term stationary backup applications.**
- **Industrial Monitoring Integration**
- **RS485 connectivity supports communication with compatible monitoring, control and energy-management systems.**
- **Space-Efficient 3.5U Installation**
- **Rack-mount architecture supports organised battery installation in industrial and telecommunications cabinets.**
- **Scalable Backup Applications**
- **Parallel expansion may support higher energy requirements, subject to manufacturer-approved configurations.**

Conclusion

The Headway T48100-3.5U provides approximately 4.8 kWh of rack-mounted LiFePO4 energy storage for telecommunications, industrial UPS and monitored DC backup applications.

APS Technology Australia can assist with battery selection, system compatibility, RS485 integration and connection to industrial monitoring and control solutions.

