

Consulting Engineering Technical & Logistical Services

Competence.

Experience.

Execution.

RMRC GmbH is a partner for companies, organizations, and public-sector clients in demanding technical and logistical projects.

With more than 30 years of experience, we support projects in security-relevant, regulated, and technically complex environments. Our objective is not only to design solutions, but to implement them in a practical, robust, and operationally ready manner.

Our services range from sound operational and strategic consulting to sales and engineering services, as well as reliable technical and organizational project support – always with a focus on transparency, quality, and feasibility.

Technical solutions – developed
for real-world deployment.

All systems shown are examples.
In cooperation with our
manufacturing partner, we
develop and realize energy
solutions precisely according to
customer specifications.



RMRC
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i-tecc+

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MILITARY ENERGY SOLUTIONS

Development.

Integration.

Responsibility.

For governmental and military applications, we combine our engineering and system expertise with the manufacturing capabilities of i-tecc batteries GmbH.

While i-tecc has been developing and manufacturing high-performance lithium-ion battery systems for the civilian market for many years, we are responsible for application-specific design, further development, integration, and distribution for security-critical operational environments.

Our focus:

- Manufacturing in Germany for maximum quality, availability, and traceability
- Adaptable battery systems for military and governmental use
- Reliable quality assurance throughout the entire product life cycle

As an interface between civilian high-performance development and governmental/military requirements, we ensure that proven technology becomes operational, documented, and resilient energy solutions.

Mobile Energy Solution for Unit and Field Camp Operations

Reliable power supply – wherever infrastructure ends.

This mobile battery solution supplies small autonomous units and temporary field camps independently of existing infrastructure. Designed for units of up to approx. 10 personnel, it enables operation and charging of mission-critical systems with grid-quality power – from communication and IT equipment to personal gear.

With a total weight of under 65 kg and a robust case solution, the system is easy to handle, vehicle-loadable, and flexible for deployment in operational environments.

Developed for deployment

- High energy density in a compact design
- Rugged housing for transport and demanding operation
- Designed for continuous loads and variable consumers
- Modular expansion depending on mission scenario

Upon request, the housing can be equipped with aramid fiber-reinforced protective structures to provide splinter protection – a solution already successfully implemented.

Technical Customization

The battery management system (BMS) is developed in-house and tailored to customer requirements:

- Comprehensive monitoring and diagnostics
- Customizable protection and prioritization functions
- Optionally fully background-operated to avoid distracting the user
- Interfaces & connectors precisely adapted to operational requirements – from commercially available charging and supply connectors to military and industrial connectors in accordance with applicable defense standards (e.g., VG and MIL standards)

Charging Options

Our systems are designed for multiple energy sources:

- Vehicle-based charging
- Stationary grid connection
- Mobile fuel cells
- Solar panels and hybrid systems

Weight / Dimensions:	approx. 63 kg (80 x 52 x 32 cm, Peli Case 1650)
Capacity:	5.6 kWh
Voltage Range:	VDC 12/24/48, VAC 110/230 (60 Hz / 50 Hz), USB-C charging current
Current / Power:	VDC 200 A, VAC 3 kW continuous output



Personal Energy Solution for the Individual Soldier

Power where it is needed – directly on the person.

This compact battery solution is designed as an advanced power bank for individual deployment and reliably supplies personal equipment with power – independently of vehicles or stationary sources. It is suitable for operating and charging optics, communication and command systems, sensors, and personal electronics.

With a weight of under 2 kg, the system combines high robustness with maximum operational suitability.

Compact. Rugged. Customizable.

This solution is not a standard off-the-shelf product but is developed as a customer-specific system. Design, capacity, and interfaces are strictly aligned with user requirements and existing equipment. The housings are IP67-protected as standard.

Optionally available:

- Splinter-resistant housing solutions
- Extended protection mechanisms
- Camouflage and signature requirements

Safe Cell Technology

LiFePO₄ battery cells are used:

- High thermal stability
- Long service life
- Reliable under extreme environmental conditions
- No classic thermal runaway as with conventional Li-ion cells – even in case of mechanical damage or ballistic impact

Interfaces & Integration

Various connection types can be integrated as required:

- Universal charging and supply connectorese
- Device-specific technical interfaces
- Military connectors according to common standards

The system integrates seamlessly into existing equipment concepts – without placing additional burden on the soldier in operation.

Weight / Dimensions:	approx. 2 kg (9.5 x 9.5 x 25.5 cm)
Capacity:	256 Wh
Voltage:	VDC: 12/24/48
Power:	250 W

