

Our solution for short-term temperature spikes

# Latent Heat Carbon

**Latent Heat Carbon is our novel approach to latent heat storage systems. It combines the heat dissipation properties of graphite with the heat storage capability of phase change materials, thus enabling reliable battery thermal management for safe and long-lasting battery operation.**

## Charging Infrastructure

### Challenges:

- Transient peak temperatures (e.g. due to fast charging)
- Short-term temperature spikes
- Limited space for thermal management

### Solutions from Schunk:

- Components for temporary energy storage
- Housings/encapsulation of thermally sensitive components

## Batteries

### Challenges:

- Transient peak temperatures
- Non-uniform cell balancing
- Limited charging/discharging cycles  
... and many more.

### Solutions from Schunk:

- Tab cooling of pouch cells
- Spacers between pouch or prismatic cells
- Housing/encapsulation of cylindrical cells
- Terminal cooling of cylindrical cells

## Benefits for Our Customers:

Effective energy storage in transient and pulsed systems:

- Customized energy storage systems
- Rapid response time due to graphite's high thermal conductivity
- High thermal capacity
- Tailored application temperatures
- Lightweight design solutions



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For further information, please contact our expert:

Dr. Sandra Reisinger, Global Business Development Manager - Thermal Management

@sandra.reisinger@at.schunk-group.com

+43 6135 / 400 - 501

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