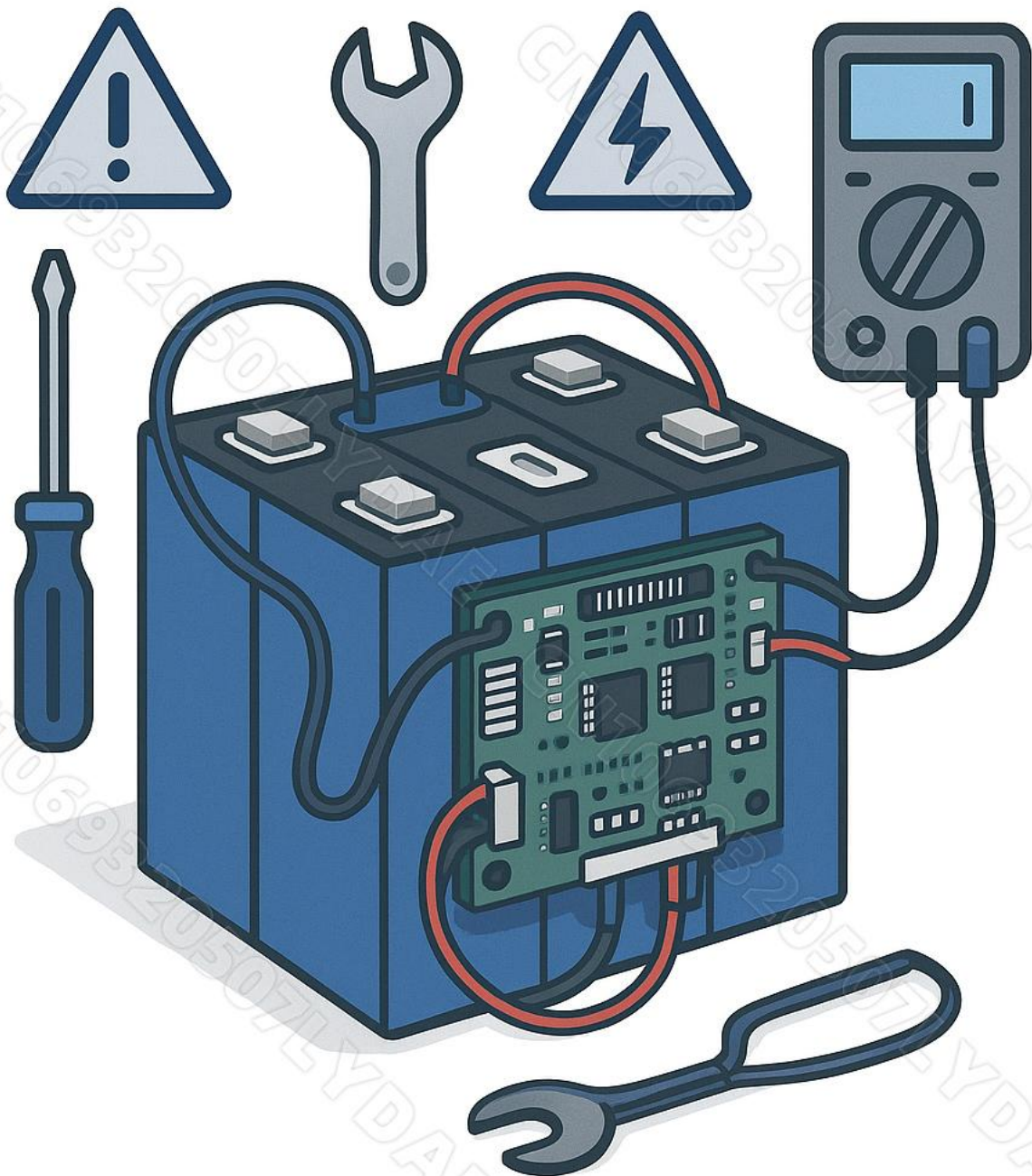
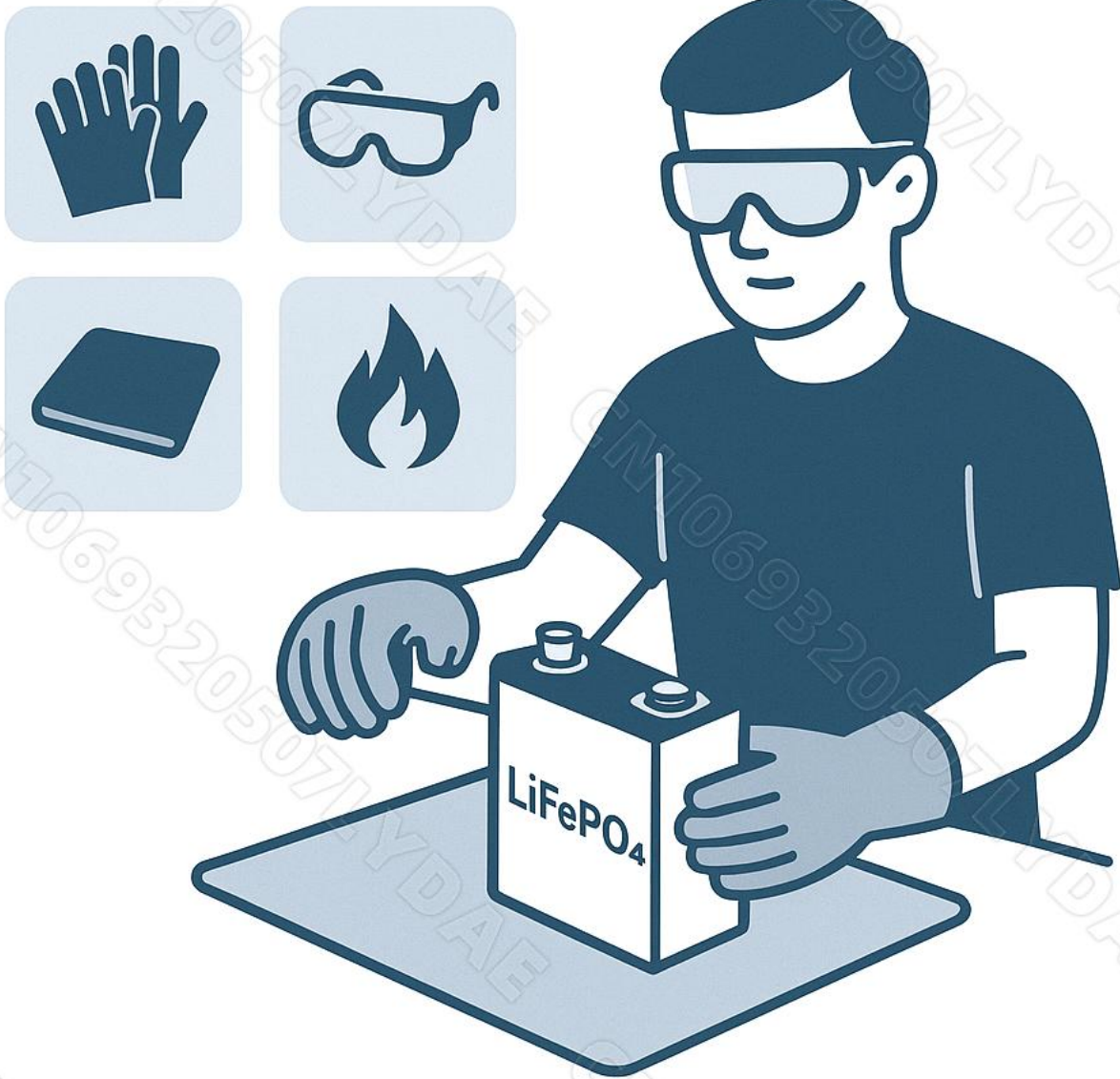


# LiFePO<sub>4</sub> BATTERY CELL DIY USER GUIDE

SAFETY & ASSEMBLY TIPS  
FOR 3,2V 320Ah CELLS



# SAFETY FIRST

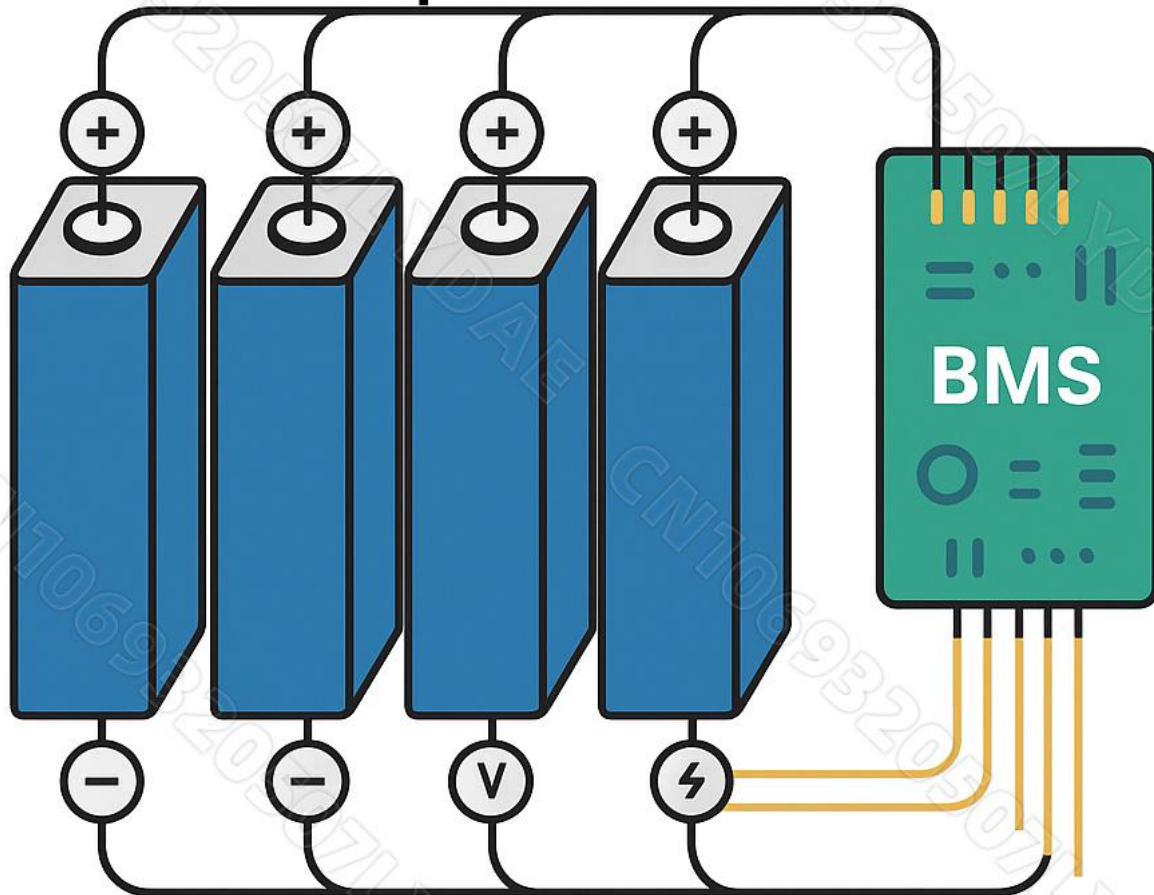


- Always wear insulated gloves and safety goggles when working with LiFePO<sub>4</sub> cells.
- Work in a dry, ventilated area away from flammable materials.
- Ensure no conductive tools or jewelry are near the battery terminals



# LiFePO4 prismatic cells

## Required BMS



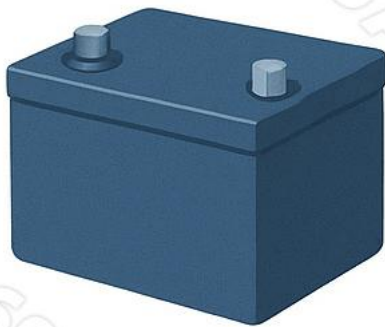
- ⚡ Prevents overcharge
- ⬆ Prevents over-discharge
- ⚡ Prevents overcurrent
- ⚡ Prevents short circuit
- ⚡ Balances cell voltage

**Pro tip:** Set charge cutoff: 3.45V  
discharge cutoff: 2.80V  
for best lifespan

# LiFePO4 BATTERY

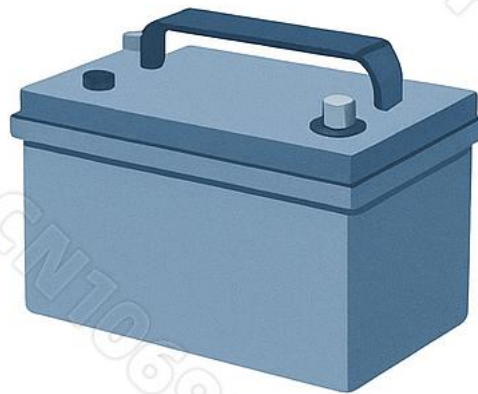
## USER GUIDE

### WHY CHOOSE LiFePO4



**LiFePO4**

VS



**LEAD-ACID**



**Compact &  
Lightweight**



**Fast Charging  
& Efficient**



**High Usable  
Capacity 80-90%**



**Stable Voltage &  
High Discharge**



**Long Lifespan  
4,000-10,000 Cycles**



**Easy Assembly  
& Low Maintenance**

### USAGE NOTES



**Safety Installation**



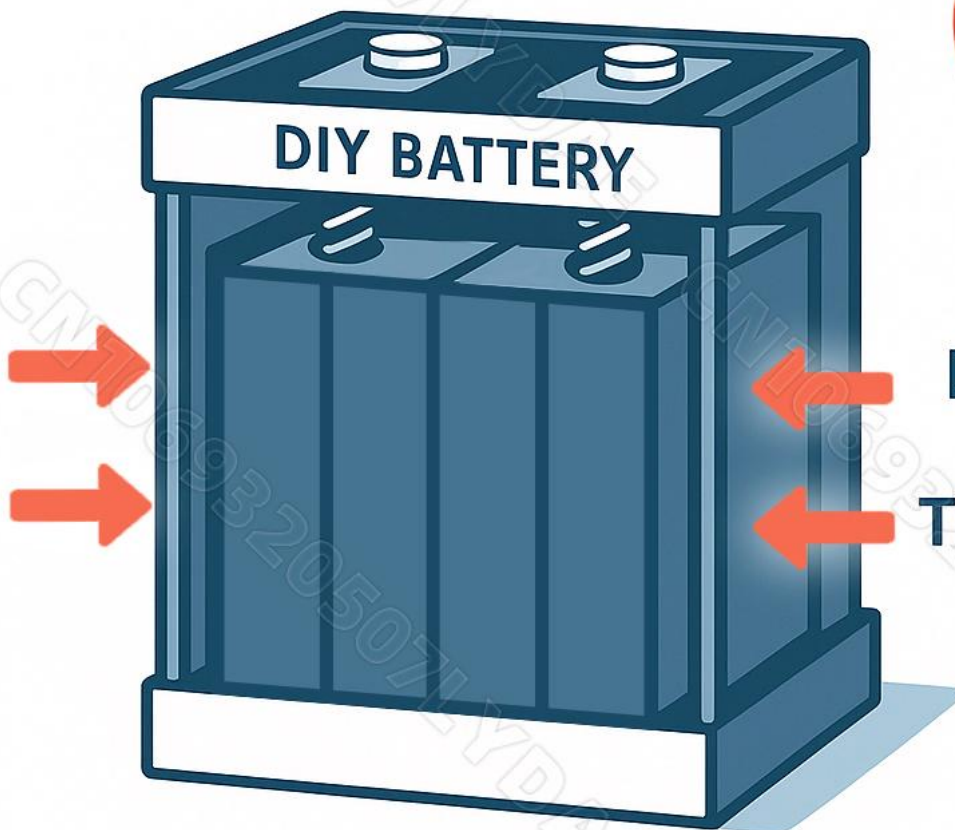
**BMS Required**



**LiFePO4 Charger Needed**

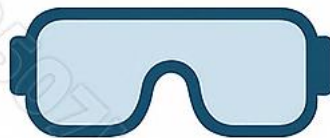


# Proper Insulation Is Essential

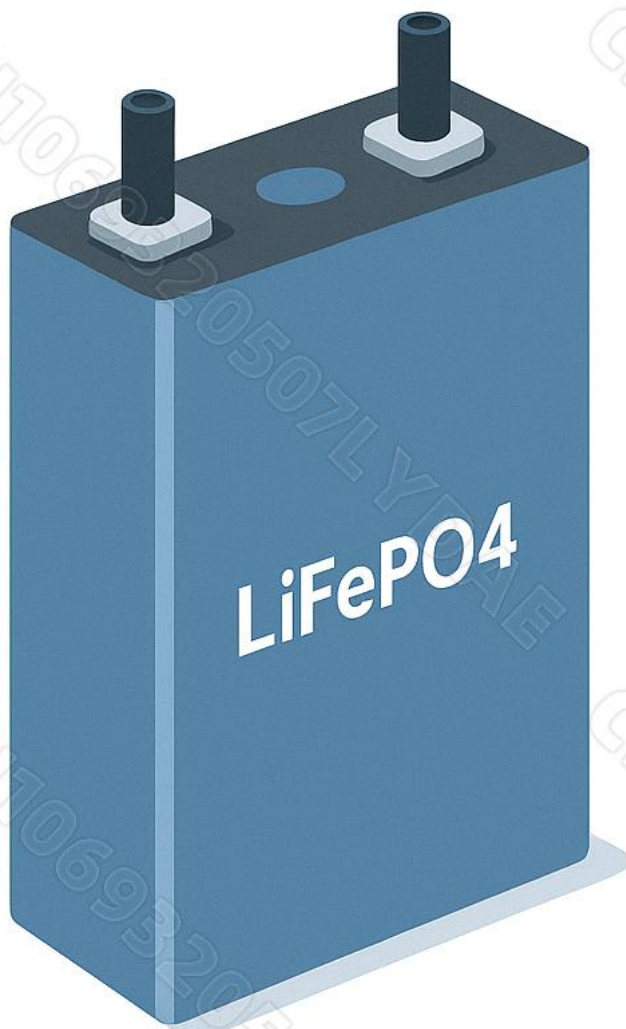


**DO NOT  
PRESS  
DIRECTLY  
ON  
TERMINALS**

**PROPER COMPRESSION  
PREVENTS SWELLING  
DURING CHARGE/DISCHARGE**



# Proper Insulation Is Essential



Use insulation tape or heat shrink between Cells



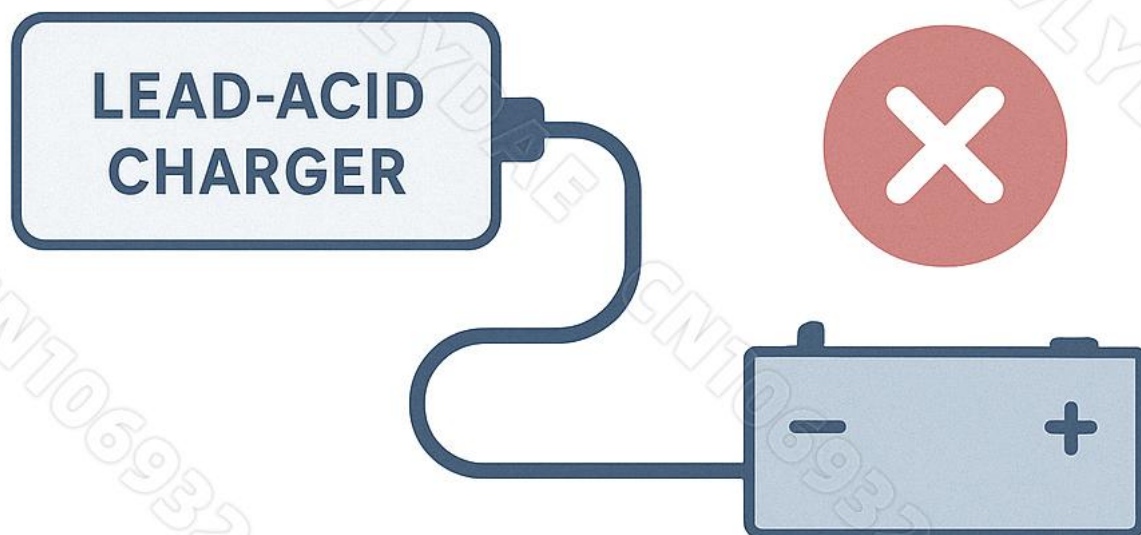
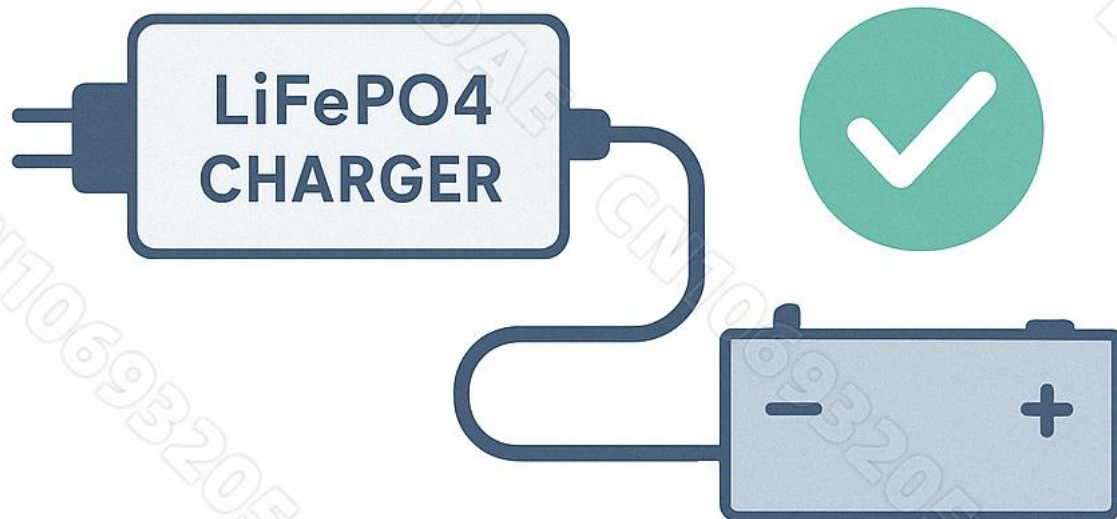
Inspect blue PVC film for damage



Avoid loose busbars or connections



# USE A PROPER LiFePO<sub>4</sub> CHARGER



- Do not use lead-acid chargers
- Use LiFePO<sub>4</sub>-compatible charger only
- Follow correct voltage and current setting

# LiFePO<sub>4</sub> Prismatic Cell Misoperations



No reverse polarity



No short circuit



No bending or piercing



No dropping or hitting



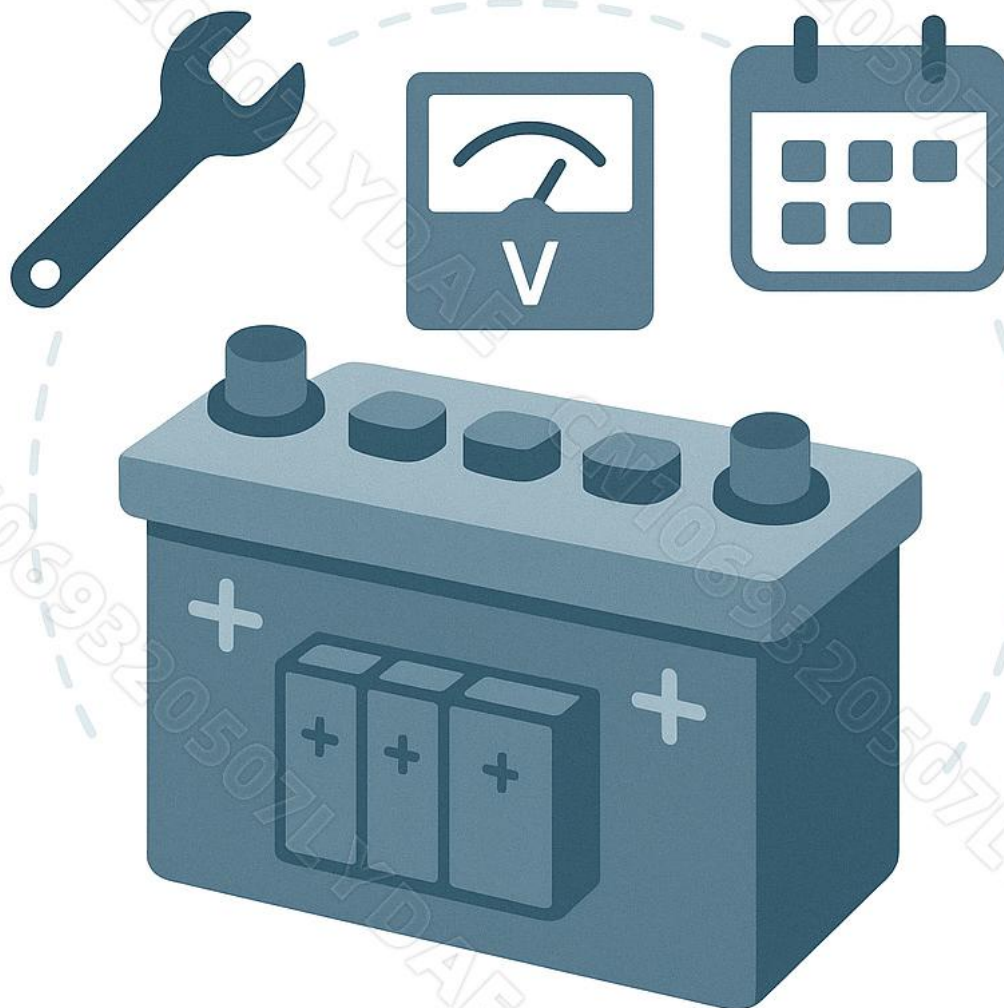
dropping or hitting the cell



- No reverse polarity
- No short circuit
- No bending or piercing
- No dropping or hitting the cell



# MAINTENANCE TIPS



- Check bolts monthly
- Monitor cell voltages
- Charge to 50% for long storage
- Store in dry, ventilated place
- Recharge every 3–6 months

If you have any other DIY-related questions or would like to learn more detailed information about DI, please feel free to contact our store customer service