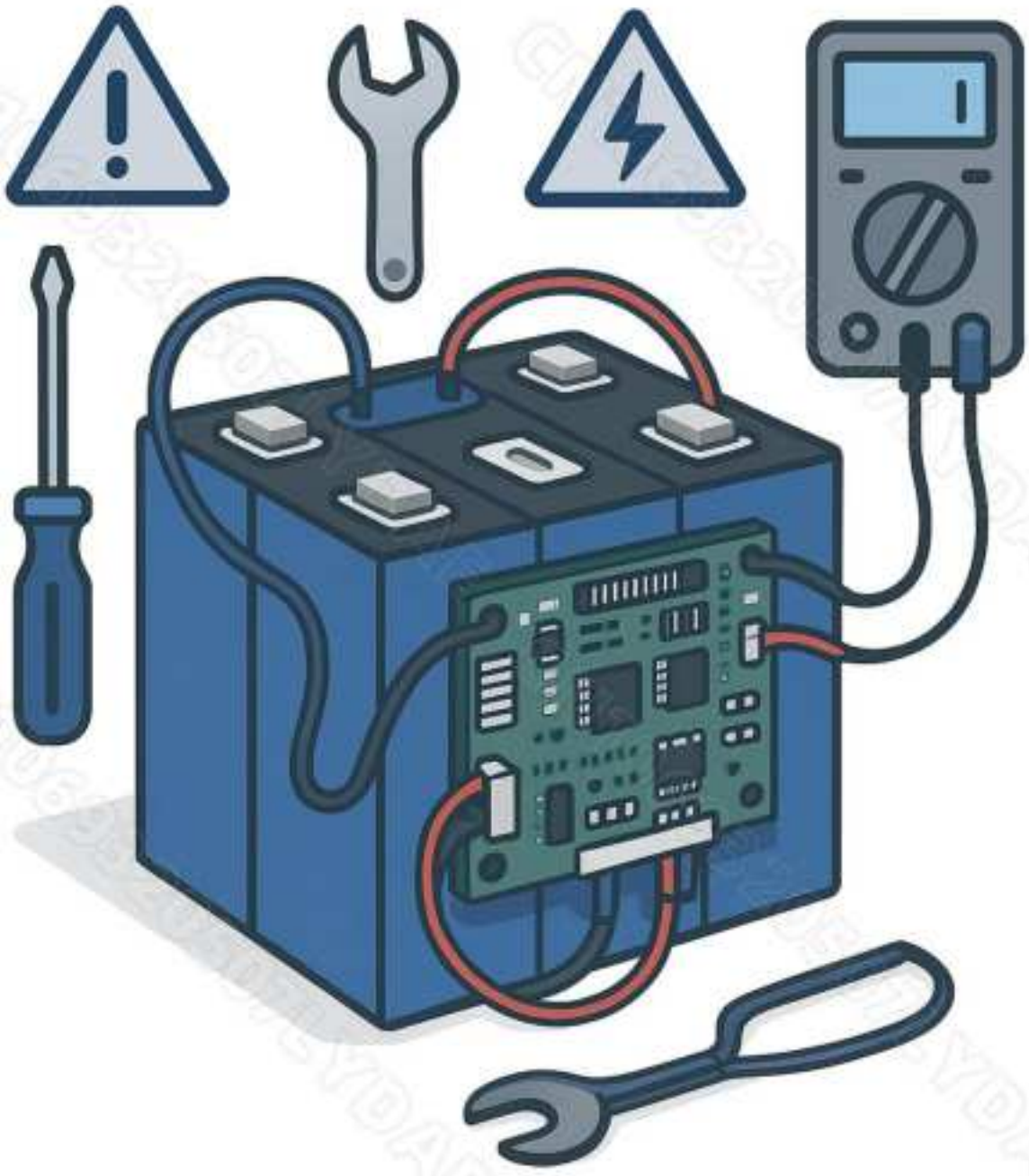
$LiFePO_4$ BATTERY CELL
DIY USER GUIDE

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

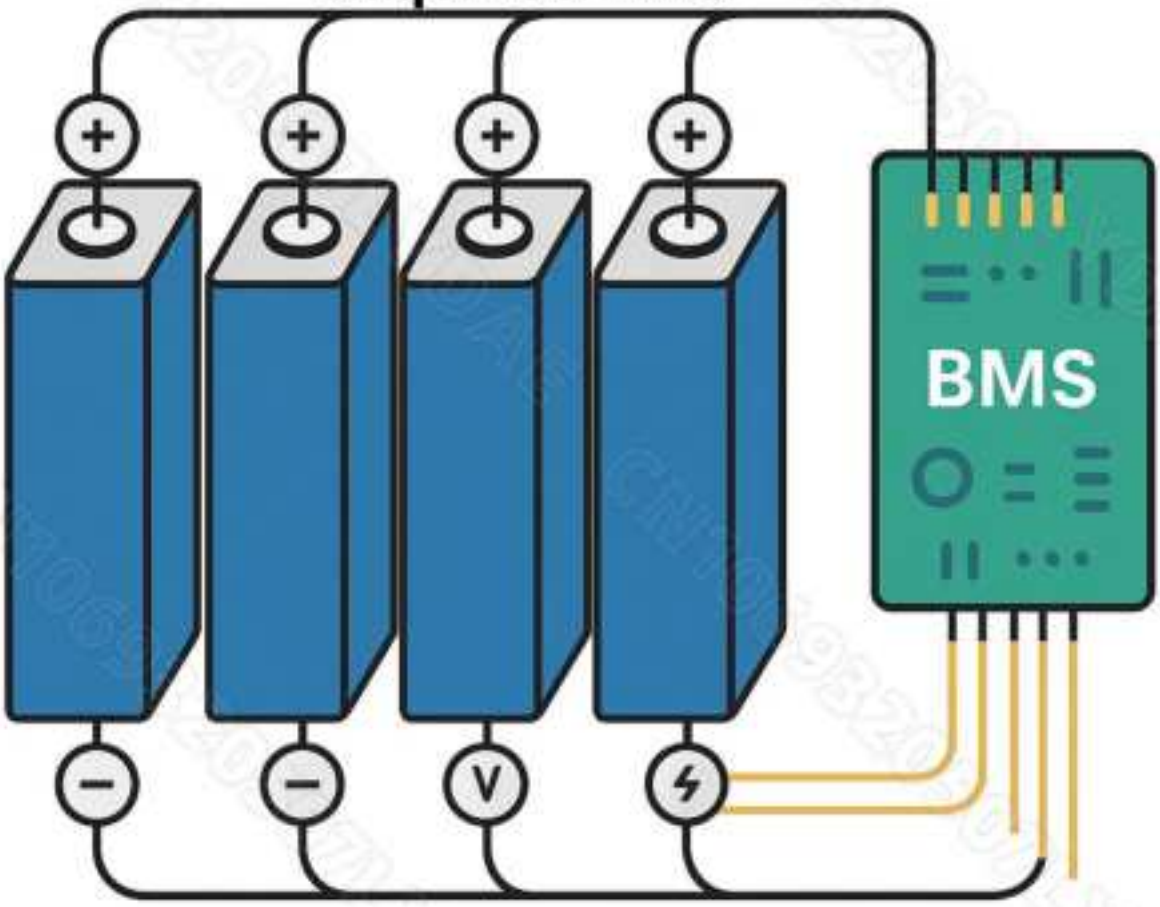


SAFETY FIRST

- Always wear insulated gloves and safety goggles when working with LiFePO4 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

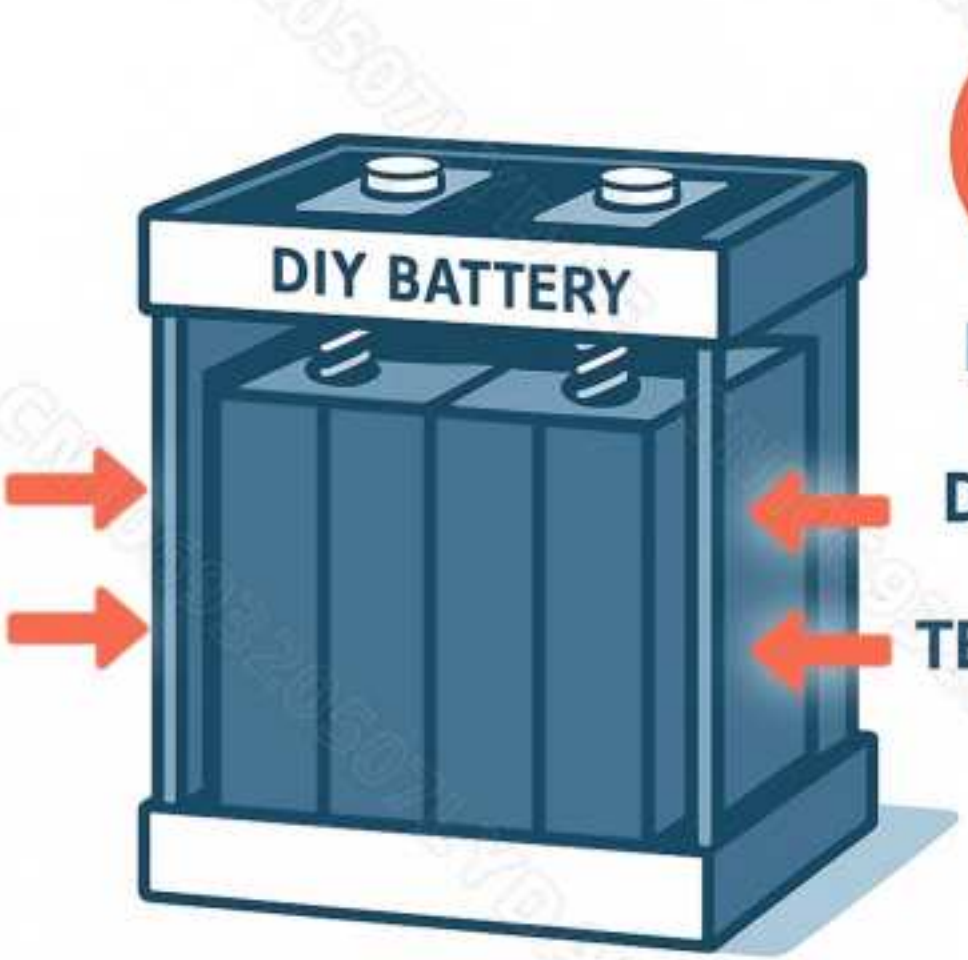
LiFePO4 LEAD-ACID

- 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

- Safty Installation
- BMS Required
- Lifepo4 Charger Needed

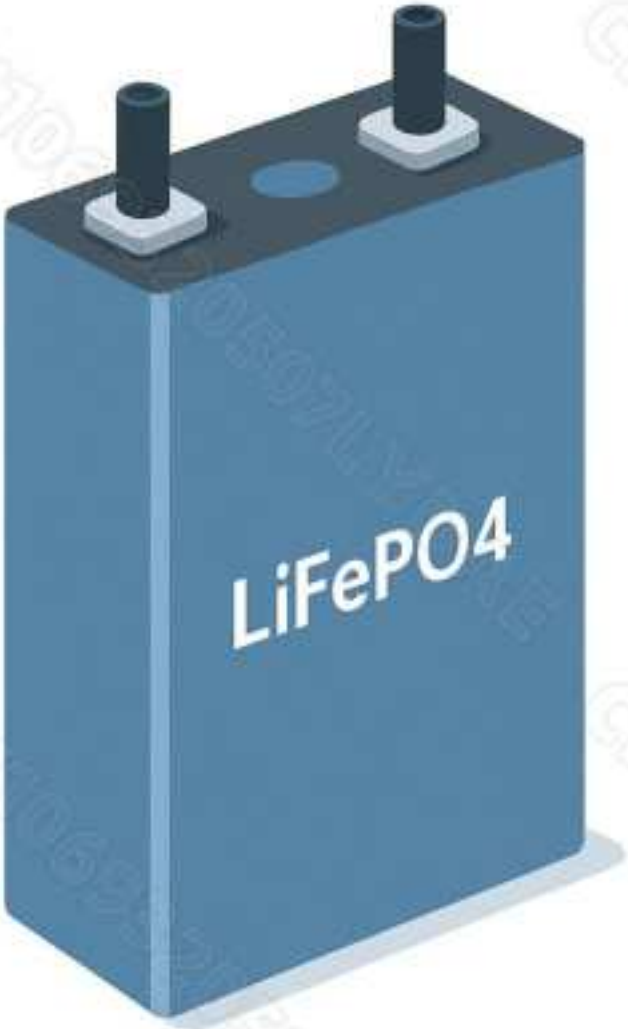
Proper Insulation Is Essential



DO NOT PRESS DIRECTLY ON TERMINALS

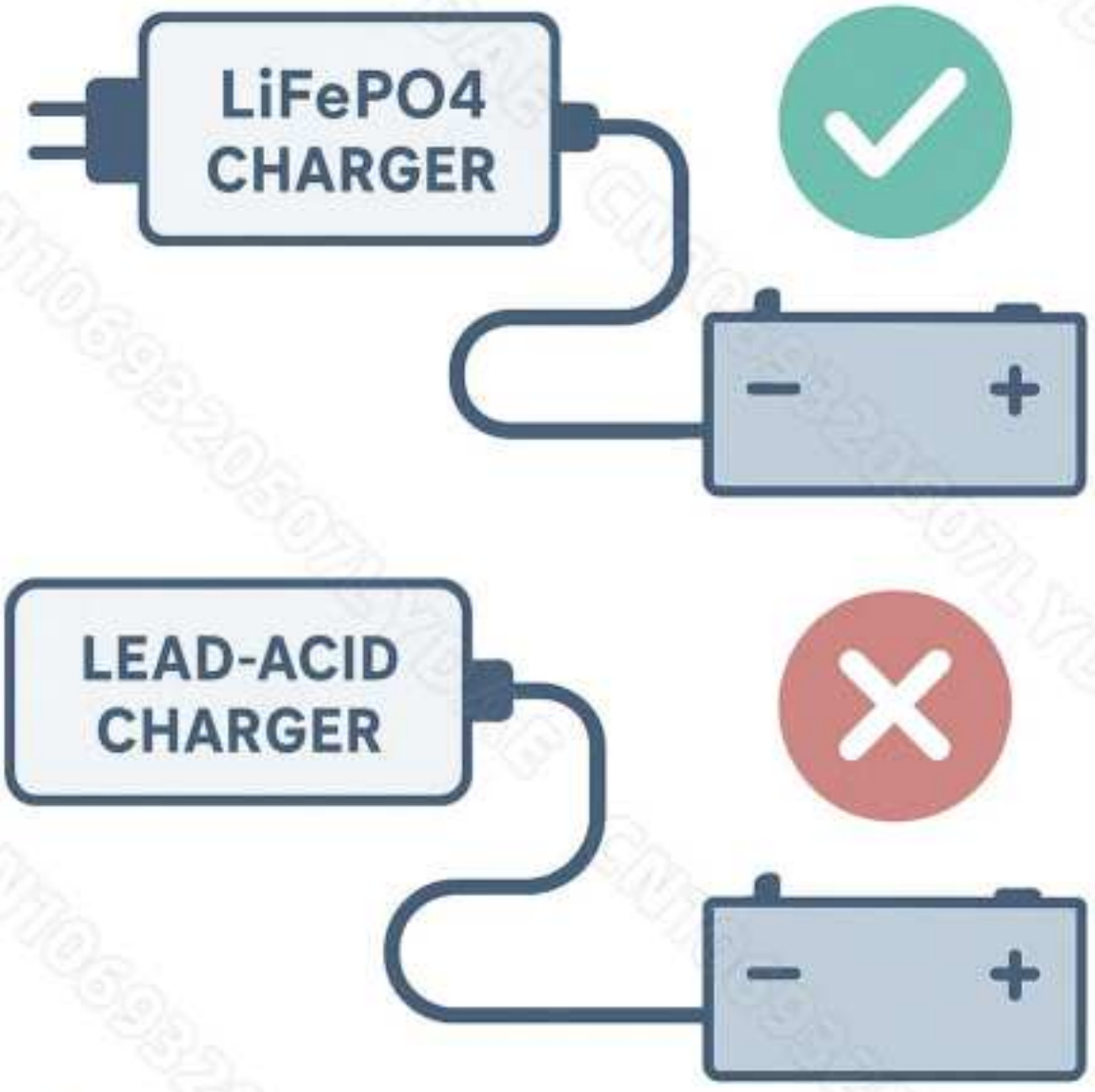
PROPER COMPRESSION PREVENTS SWELLING DURING CHARGE/DISCHAGE

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
$LiFePO_4$ CHARGER



- Do not use lead-acid chargers
- Use $LiFePO_4$-compatible charger only
- Follow correct voltage and current setting

$LiFePO_4$ Prismatic Cell Misoperations

No reverse polarity | No short circuit | No bending or plercing

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 lean more detailed information about DI, please feel free to contact our store customer service