

LITHIUM IRON PHOSPHATE BATTERY



ELECTRICAL PERFORMANCE

Battery chemistry	LiFePO ₄
Nominal voltage	25,6V
Nominal capacity	90Ah
Nominal energy	2304Wh
Self discharge	<3% / Month
Cells	LFP Cell 3.2V

CHARGE PERFORMANCE

Recommended maximum charge current	75A
Maximum charge current	100A
Charge voltage	29.2V
Float voltage	27.2V
Start cell balancing voltage	3.2V
Maximum batteries in series	Not supported / Not permitted
Maximum batteries in parallel	8 (individual fuse)
Maximum balancing current	1A
Bluetooth	Bluetooth and smartphone applications

MECHANICAL PERFORMANCE

Dimension (L x W x H)	332 x 175 x 230mm
Approximate weight	22,4kg
Terminal type	M8
Terminal torque	9 ~ 11 N-m
Case material	ABS
Enclosure protection	IP65

DISCHARGE PERFORMANCE

Recommended max. discharge current	75A
Maximum continuous discharge current	90A
Peak current	150A (3 sec)
Discharge cut-off voltage	23 ≥ 23.6V
Short circuit protection	450A

TEMPERATURE PERFORMANCE

Discharge temperature	-20 ~ +45°C
Charge temperature	-20 ~ +45°C (internal heating -20 ~ 0°C)
Storage temperature	-10 ~ +30°C

FEATURES

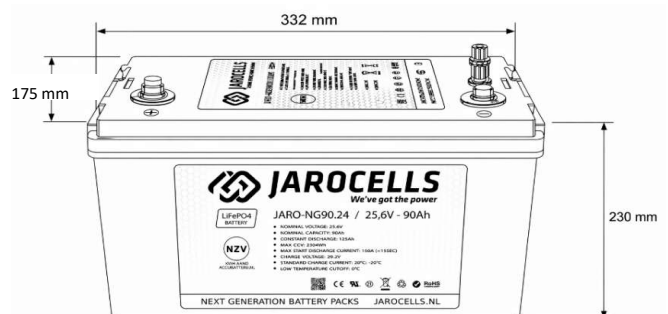
RS485-interface	Micro-C male 4 pin
NMEA2000-interface	Micro-C male 5 pin
Heating	Internal self-regulated heating
Cell balancing	Active high current self balancing
Sleep mode	Automatic sleepmode for less selfdischarge
Rugged construction	Stainless Steel Reinforced Core
Warranty	5 years

COMPLIANCE

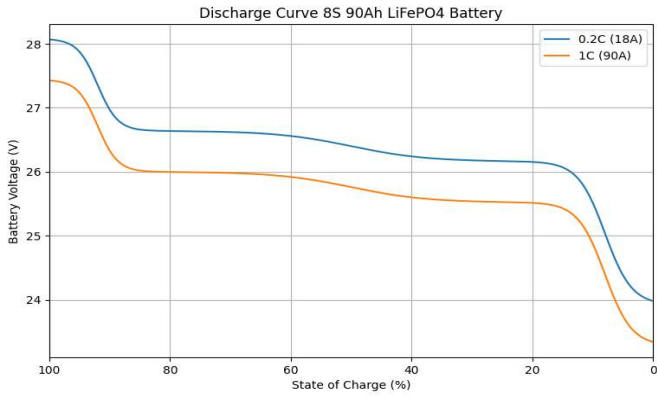
Certifications	CE, UL / UN38.3
Shipping classification	UN 3480, CLASS 9

OUTLINE DIMENSION

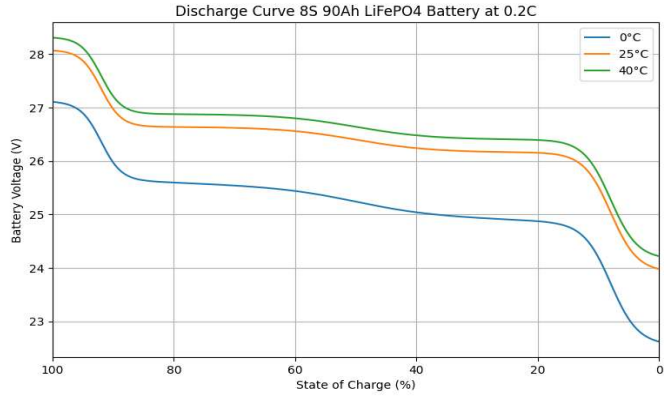
Length	332mm
Width	175mm
Height	230mm



DISCHARGE CURVE



TEMPERATURE COMPARISON



SAFETY INSTRUCTIONS



1. GENERAL

- Use only by qualified personnel
- Keep out of reach of children
- Not for critical/medical applications
- Do not use a damaged battery



2. EXPLOSION & FIRE HAZARD

- No metal objects on the battery / no jewelry
- Keep away from fire and heat sources
- Place on non-flammable surface
- Keep dry
- Use CO₂ or type D extinguisher



3. SAFETY & PROTECTION

- Do not open the battery (hazardous substances)
- Damage = dispose immediately (hazardous waste)
- Avoid shocks, pressure, drilling or cutting
- Use only a suitable LiFePO4 charger



4. CONNECTION

- Use cables with adequate thickness
- Max. 3x 12V in series
- Max. 8x in parallel (with fuses)
- Fully charge all batteries before connecting in series or parallel



5. CHARGING & DISCHARGING

- Use only a suitable LiFePO4 charger and the supplied cables
- Charge in a dry, safe environment
- Do not charge with damaged cables
- Keep current within specifications
- Recharge when voltage is low
- Fully discharged battery: recharge within 24 hours
- Automatic heating allows charging below 0°C
- Discharge possible down to -20°C
- Self-discharge: 3-5% per month
- Disconnect devices during long storage and recharge regularly



6. TEMPERATURE & STORAGE

- Charging possible below 0°C (automatic heating)
- Discharge safe down to -20°C
- Store in a cool, dry place
- Check voltage regularly
- Recharge if voltage is low



7. SERIES / PARALLEL USE

- Batteries must be at the same state of charge
- Do not mix full and empty batteries
- Max. 3x 12V in series
- Max. 8x in parallel (with fuses)
- 24V and 36V batteries must not be connected in series



8. TRANSPORT

- Use original or equivalent packaging
- Secure batteries during transport
- Avoid shocks and drops



IMPORTANT

Always follow the full manual for complete safety instructions and proper use.