epcom
POWER LINE



Na-ion Battery

Sodium-ion Automotive Start-Stop Battery Series

Applications

- Replace lead-acid start-stop batteries.
- Start power for machinery & diesel engines.
- Extreme cold/heat region starting.
- Start-stop & energy storage auxiliary.

Advantages

- High safety, no thermal runaway.
- Ultra-wide temperature start, stable ignition at -40°C.
- Cycle life over 3,000 cycles, outperforms lead-acid batteries.
- Lightweight, easy installation & replacement.
- High consistency & good compatibility.
- Low internal resistance & high-current discharge.

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Specification

Model	HN12-45
Cell Type	Sodium-ion cylindrical cell (NFPP cathode)
Nominal Capacity	45Ah
Nominal Voltage	12V
Discharge Cut-off Voltage	6 ~ 14.4V
Charging Voltage Range	13.6 ~ 14.4V
Rated Energy	540Wh
Cold Cranking Amperes (CCA)	800A
Battery Internal Resistance	⩽2.5mΩ
Self-Discharge Rate	⩽3.5%/Month
Net Weight (N.W.)	7.72±3%kg
Charging Temperature	-10°C ~ +80°C
Discharging Temperature	-40°C ~ +80°C
Storage Temperature	0°C ~ +45°C (Long-term)
Humidity Range	5 ~ 90%RH (No Condensation)
Cycle Life[1]	⩾3000 cycles
IP Rating	IP65
Dimensions (L*W*H, mm)	280*178*188
Battery Case Material	ABS+30%PC

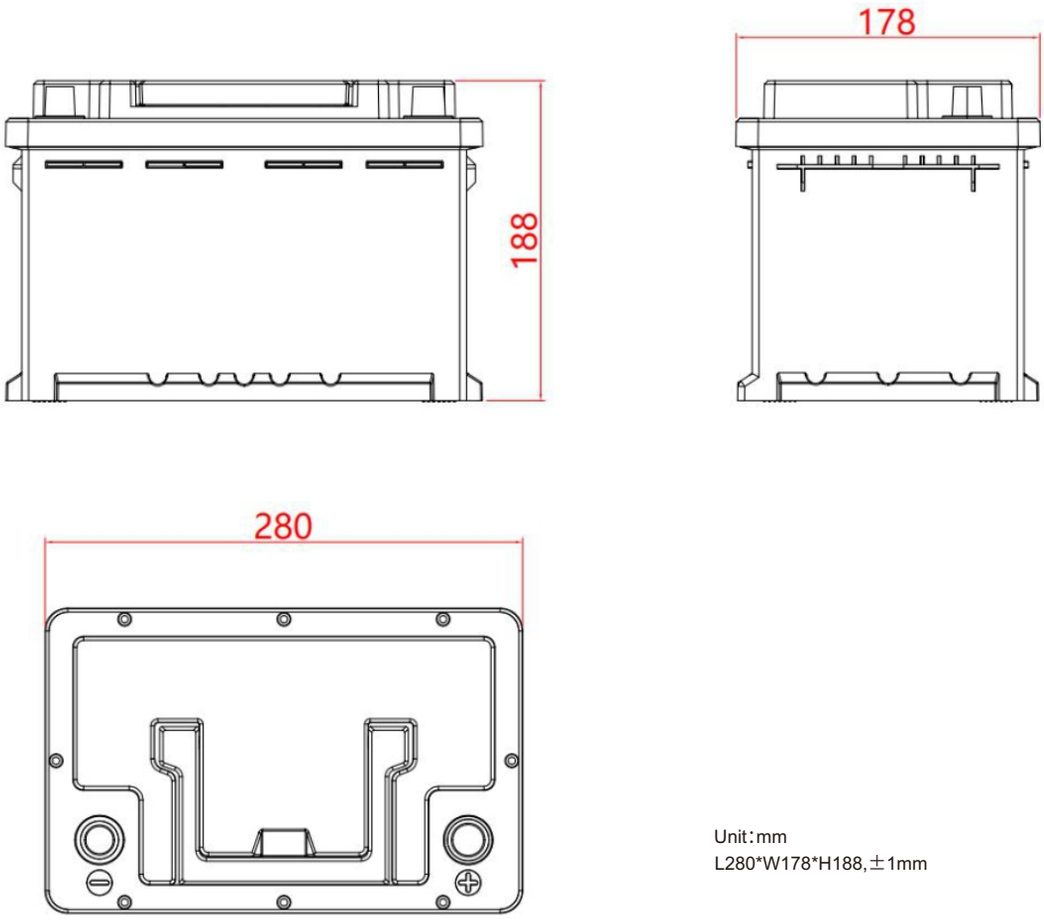
Notes:
1. 0.5C/0.5C, 100% DOD to 80% EOL. (25±2°C and 65±20% relative humidity)

Caution

1. Strictly prohibit positive/negative short-circuit.
2. Do not use outside specified voltage range.
3. Use only compatible cells and charge-discharge systems.
4. Do not store in direct sunlight, high humidity or rain.
5. For long-term storage, disconnect ports and recharge every 3 months.

Dimensions

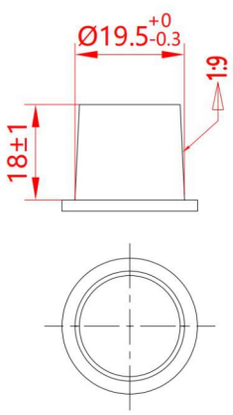
HN12-45



Unit：mm
L280*W178*H188,±1mm

T2 Wiring Terminal

Positive



Negative

