



LEAPTON
SOLAR



■ ■ ■ SWITCH YOUR LIFE
ENERGY STORAGE SOLUTIONS



HIGH VOLTAGE BATTERY EH-A05



PERFECT COMPATIBILITY

Suitable for 1 and 3 phase, hybrid and retrofit inverters



SAFE & RELIABLE

Reliable LFP battery cell with high cycle stability



IP65 RATING

IP65 for both indoor and outdoor



FLEXIBLE INVESTMENT

5kWh Modular Design, Flexibility Configuration-10.2kWh/15.3kWh/20.4kWh



EASY INSTALLATION

Stackable standard modules



HIGH EFFICIENCY

Charge and discharge with high efficiency

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TECHNICAL PARAMETERS

| Battery Module | EH-A05-102/102 | EH-A05-102/204 | EH-A05-102/307 | EH-A05-102/409 |
|--|--|----------------|----------------|----------------|
| Rated Energy(kWh) ¹ | 5.12 | 10.24 | 15.36 | 20.48 |
| Usable Energy (kWh) ¹ | 4.6 | 9.2 | 13.8 | 18.4 |
| Battery Module Energy | EHA05/5.12kWh | | | |
| Number of Modules | 1 | 2 | 3 | 4 |
| Cell Type | LFP (LiFePO ₄) | | | |
| Cell Configuration | 32S1P | 64S1P | 96S1P | 128S1P |
| Rated Capacity(Ah) | 50 | | | |
| Nominal Voltage (V) | 102.4 | 204.8 | 307.2 | 409.6 |
| Operating Voltage Range (V) | 91.2~115.2 | 182.4~230.4 | 273.6~345.6 | 364.8~460.8 |
| Recommend Charge/ Discharge Current (A) | 25 | | | |
| Recommend Charge/ Discharge Power (kW) | 2.56 | 5.12 | 7.68 | 10.24 |
| Max. Charging/ Discharging Current (A) ² | 50 | | | |
| Max. Charging/ Discharging Power (kW) ² | 5.12 | 10.24 | 15.36 | 20.48 |
| Weight (kg) | 70 | 125 | 180 | 235 |
| Dimensions (W × H × D mm) | 800*560*195 | 800*840*195 | 800*1120*195 | 800*1400*195 |
| Communication | CAN/RS485 | | | |
| Operating Temperature (°C) | Charge: 0 ~ +50; Discharge: -20 ~ +50 | | | |
| Operating Temperature (Recommended) (°C) | 15~30 | | | |
| Relative Humidity | 5%~95% | | | |
| Cycle Life | >6000 (25°C @ 77°F) | | | |
| Recommend DOD | 90% | | | |
| Environment | Outdoor / Indoor (*Please refer to the user manual for installation condition) | | | |
| Cooling | Natural convection | | | |
| Ingress Protection Rating | IP65 | | | |
| Max. Operating Altitude (m) | 2000 | | | |
| Mounting Method | Floor stand | | | |
| Certificates | CE, IEC62619, UN38.3 | | | |
| Performance Warranty | 12 Years | | | |

Note

1. Value for Battery Cell Only (Depth of Discharge 90%). Actual usable energy at the AC output may vary by condition, such as the battery converter, inverter efficiency and temperature.
2. Leapton Energy recommends 25A@2.5kW for maximum battery module lifetime. Max dis-/charge current and power derating will occur related to temperature and SOC.