Lithium-Ion-Module

# EP-NCM53Ah-Standardmodul

**Advantage**

- **Recharges much faster**
- **Low self discharge**
- **Incredible small size**
- **Longer sevice life**
- **Less weight**
- **High rigidity**


Lithium-ion battery module for use in electric powered mobilities. The system consists of Lithium-Ion-Cells, connected in series to reach the system voltage. The battery system voltage can be verified by different combination of modules.

| No. | Items | | EP-NCM53Ah STANDARD MODUL | | Note |
|---|---|---|---|---|---|
| | | | 53Ah2p6s | 53Ah2p7s | |
| 1 | Nominal Voltage (V) | | 22.32 | 26.04 | (40%SOC) |
| 2 | Voltage (V) | min | 16.8 | 19.6 | |
| 3 | | max | 26.1 | 30.45 | |
| 4 | Nominal capacity (Ah) | | 106 | 106 | 25°C+-2°C, 1C |
| 5 | Nomminal energy (kWh) | | 2.36 | 2.76 | 25°C+-2°C, 1C |
| 6 | Available energy (kWh) | | >=2.31 | >=2.43 | |
| 7 | Group mode | | 2p6s | 2p7s | |
| 8 | End of life residual capacity (Ah) | | 84.8 | | 100%DoD, 1C/1C, 1000 cycles, residual capacity>80%, @25°C |
| 9 | Modul weight (kg) | | 12.1 | 14.05 | |
| 10 | Continous charge current (A) | | 35.3 | | 1/3C |
| 11 | Max short pulse charge current <10s (A) | | 106 | | 1C |
| 12 | Max continous discharge current (A) | | 106 | | |
| 14 | Max short pulse dicharge current <10s (A) | | 318 | | 25-50°C, >30%SOC |
| 12 | SOC operating range (%) | | 10-100 | | |
| 13 | Insulation requirements (MOhm) | | >=200 | | |
| 14 | Modul cooling method | | Natural cooling | | PTC heater or watercooled plate |
| 15 | Modul heating method | | No | | |
| 16 | Shipping capacity (SOC) | | 30% -70% | | SOC is consistent in the same batch |
| 17 | Coulomb efficiency | | >95% | | |
| 18 | Module self discharge | | <3% | | 25°C+-2°C, 50%SOC |
| 19 | Dimension L (mm) | | 355 | 412.5 | |
| | Dimension B (mm) | | 151.5 | 151.5 | |
| | Dimension H (mm) | | 108.5 | 108.5 | |

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March 20