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Energy  
Systems

Custom Energy Storage Systems



## NES-I Storage L

DC lithium battery for large energy storage facilities

The NES-I Storage L storage unit combines the latest cell technology with optimized efficiency. The modular units can be flexibly combined. It can be used across all fields of application in business, industry and substitute power supply systems. The ultimate safety, durability and flexibility come together in the NES-I Storage L.

### Key Features

- ✓ **Plug & play technology:** for quick assembly
- ✓ **Flexible:** modular system design for new and existing facilities
- ✓ **Cells:** LifePo4 for optimum safety and service life
- ✓ **Quality:** Made in Germany
- ✓ **Low cost with optimum efficiency**
- ✓ **Maintenance contract:** guarantee of up to 20 years possible
- ✓ **Monitoring of individual cells:** for optimum service life
- ✓ **High energy density:** ensuring high flexibility and space-saving assembly



[www.newenergy-systems.com](http://www.newenergy-systems.com)



## Technical Data



### NES-I Storage L\*

|  |   |        |        |        |        |
|--|---|--------|--------|--------|--------|
| Usable energy                          | 4 kWh                                       | 4 kWh  | 4 kWh  | 4 kWh  | 4 kWh  |
| Max. charging/ discharging current     | 60 A  | 90 A   | 120 A  | 180 A  | 240 A  |
| Rated voltage                          | 76,8 V                                      | 51,2 V | 38,4 V | 25,6 V | 19,2 V |
| Max. overall efficiency                | 94 %  |        |        |        |        |
| Number of full cycles                  | 5000  |        |        |        |        |
| Service life (for 250 cycles/year)     | Up to 20 years                              |        |        |        |        |
| System coupling                        | DC-coupled                                  |        |        |        |        |
| Cell technology                        | Lithium iron phosphate                      |        |        |        |        |
| Battery management system              | Individual cell monitoring                  |        |        |        |        |
| Ambient temperature                    | 5°C – 35°C                                  |        |        |        |        |
| Protection class                       | IP 41                                       |        |        |        |        |
| Fuse                                   | DC isolation (mechanical, electronic)       |        |        |        |        |
| Data communication                     | CAN-interface                               |        |        |        |        |
| Tests / directives                     | CE, UN 38.3 test, VDE Low Voltage Directive |        |        |        |        |
| Number of system encasements           | 1   |        |        |        |        |
| Dimensions Height x width x depth (mm) | 294x174x442                                 |        |        |        |        |
| Weight                                 | 37 kg                                       |        |        |        |        |

\* Products and services as well as technical data are subject to change, this includes any change as a result of country-specific legislation. NES-GmbH is not liable for any mistakes or printing errors.

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Your certified NES-partner