

P O W E R
- I N G ●
T O M O -
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Smart
Photovoltaic
Inverter
Series



2023



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HEL HV Battery



- Compatible with MINI series battery ready inverter
- Flexible capacity options, 6.6kWh to 19.8kWh
- Excellent safety of LiFePO4 battery
- Cycle life >6000

HELIA · PRODUCT

| Datasheet | HEL 6.6H-CI | HEL 9.9H-CI | HEL 13.2H-CI | HEL 16.5H-CI | HEL 19.8H-CI |
|-----------------------------------|--|----------------|---|---------------|----------------|
| System Data | | | | | |
| Battery module | ML33RTA (3.3kWh, 51.2V, 30kg) | | | | |
| Number of modules in parallel | 2 | 3 | 4 | 5 | 6 |
| Battery capacity | 6.6kWh | 9.9kWh | 13.2kWh | 16.5kWh | 19.8kWh |
| Weight | 213.5lbs/105kg | 308.6lbs/140kg | 463.0lbs/210kg | 529.1bs/240kg | 595.2lbs/270kg |
| Max. charge/discharge power | 3500W/3500W | 5200W/5200W | 5200W/5200W | 5200W/5200W | 5200W/5200W |
| Max. charge/discharge current | 9.7A@360V | 14.3A@360V | 14.3A@360V | 14.3A@360V | 14.3A@360V |
| Dimensions (W/D/H) | 650/320/1160mm (25.6/12.6/45.7in) | | 2pcs/650/320/1160mm (25.6/12.6/45.7in) | | |
| Battery type | Cobalt Free Lithium Iron Phosphate (LFP) | | | | |
| Nominal voltage | 400V | | | | |
| Operating voltage range | 360-550V | | | | |
| IP protection | IP56/NEMA Type 4X | | | | |
| Installation | Floor Installation | | | | |
| Operation temperature | -10+45°C/14-113°F | | | | |
| System features | | | | | |
| DC-DC RTE | 94.4% | | | | |
| DoD | 90% | | | | |
| Cycle life | ≥6000 cycles | | | | |
| BMS monitoring parameters | SOC, System voltage, current, cell voltage, cell temperature, PCBA temperature measurement | | | | |
| Communication port | RS485/CAN | | | | |
| Warranty | 10 Years | | | | |
| Battery module data | | | ML33RTA | | |
| Battery capacity | 3.3kWh | | | | |
| Nominal voltage | 51.2V | | | | |
| Operating voltage range | 48 - 57.6V | | | | |
| Max. Charging/Discharging Current | 0.5C/0.66C | | | | |
| Cycle life | >6000 | | | | |
| Operation temperature | -10+50°C/14-122°F | | | | |
| Dimensions without base(W/D/H) | 445/131/399.6mm (17.52/5.16/15.73in) | | | | |
| Weight | 30kg/66.14lb | | | | |
| Certification | | | | | |
| System | UL1973/ FCC Part 15 Class B, UL9540 | | | | |
| Battery module | IEC62619/CE/UL1973/ UN38.3+PI965 | | | | |

