

# DH100F

## Commercial battery cabinet

The DH100F is an AC-coupled battery cabinet for commercial and industrial energy storage. The all-in-one solution provides storage capacity of 71kWh, 86kWh or 100kWh with an integrated power conversion system (PCS) of 36kW, 43kW and 50kW respectively. It offers direct PV connection thanks to an optional MPPT module.

- + All-in-one integrated solution
- + Off-grid operation
- + Integrated PCS
- + Optional direct PV connection
- + 6000 cycles\*
- + Integrated PCS
- + Parallel connection up to 8 cabinets (800kWh)
- + Integrated fire extinguishing system



|                                    |   |
|------------------------------------|---|
| <b>Dimensions (b x h x d)</b>      | 1200x 1048 x 2258 mm  |
| <b>Net Weight</b>                  | 1610kg (to be confirmed)  |
| <b>Battery type</b>                | LFP (LiFePO <sub>4</sub> )  |
| <b>Max. site altitude</b>          | 3000m (derating above 2000m)  |
| <b>IP-protection class</b>         | IP55  |
| <b>Anti-corrosion</b>              | C3  |
| <b>Cooling principle</b>           | Aircooling  |
| <b>Warranty</b>                    | 5 years **  |
| <b>Display</b>                     | Touchscreen   |
| <b>Communication-interfaces</b>    | Ethernet/4G/RS485   |
| <b>Cycle life</b>                  | 6000 cycles / 80% EOL (25°C, 100% DOD, 0,5P)  |
| <b>Fire extinguishing system</b>   | Level 3 detection + system level fire protection                                      |
| <b>Standards</b>                   | GB/T36276, GB/T34131, IEC62619, IEC63056, IEC60730, EN62477, EN61000-6-2/4, IEC 62933 |
| <b>Operating temperature range</b> | -20°C to +50°C  |
| <b>Relative humidity range</b>     | 0% to 95%   |



# Battery technical specifications

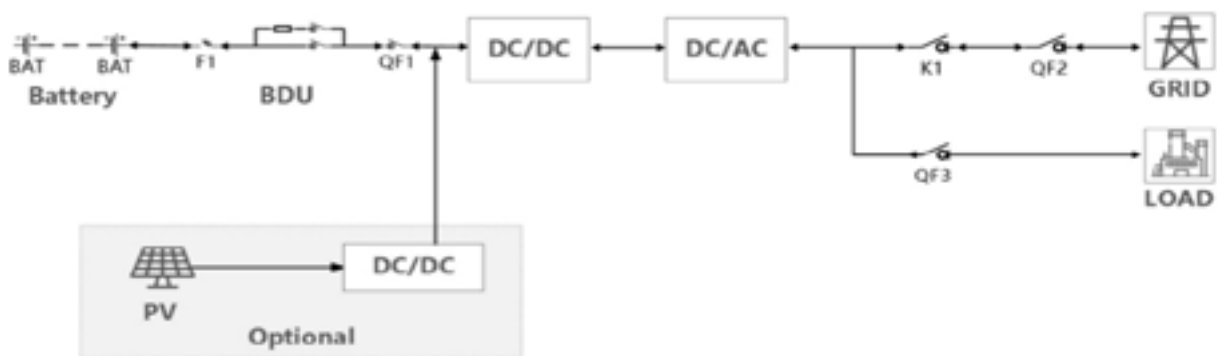
| Model                 | DH100F-71kWh  | DH100F-86kWh  | DH100F-100kWh |
|-----------------------|---------------|---------------|---------------|
| System capacity (kWh) | 71            | 86            | 100           |
| Cell capacity (Ah)    | 280           | 280           | 280           |
| Module configuration  | 1P16S         | 1P16S         | 1P16S         |
| Battery packs         | 5 per cabinet | 6 per cabinet | 7 per cabinet |

## AC-output (on-grid/ off-grid)

|                            |               |               |                 |
|----------------------------|---------------|---------------|-----------------|
| Rated output power (kW)    | 35            | 40            | 50              |
| Max. AC-current (A)        | 60            | 74            | 86              |
| Rated output voltage (Vac) | 400           | 400           | 400             |
| Voltage range (Vac)        | 320-460       | 320-460       | 320-460         |
| Wiring method              | 3P4L+PE       | 3P4L+PE       | 3F+N+PE         |
| Rated frequency (Hz)       | 50/60         | 50/60         | 50/60           |
| Grid frequency range (Hz)  | 45-55 / 55-65 | 45-55 / 55-65 | 45-55 / 55 - 65 |
| THDI (on-grid)             | <= 5%         | <= 5%         | <= 5%           |
| Switch time (off-grid) (S) | <2            | <2            | <2              |

## PV-input characteristics (optional MPPT modules)

|                                |          |          |          |
|--------------------------------|----------|----------|----------|
| Max. input power (kW)          | 25/50    | 30/60    | 35/70    |
| Max. AC current (A)            | 80/160   | 80/160   | 80/160   |
| Max. Short circuit current (A) | 100/200  | 100/200  | 100/200  |
| Max. Voltage (V)               | 1000     | 1000     | 10000    |
| Start-up voltage (V)           | 310      | 370      | 430      |
| MPPT Voltage range (V)         | 300-1000 | 300-1000 | 300-1000 |
| MPPT tracker per MPPT module   | 1        | 1        | 1        |



\*Measured at 25C, 100% DOD with 1h between the cycles.

\*\* Please refer to the warranty document for detailed scope of the 5 years warranty.

The specifications contained in this datasheet may deviate slightly from our actual products due to on-going product improvement and are subject to change at any time without prior notice