

# PRODUCT DATASHEET

## LHT-HV 50K F1-DC-WIET-CT



### Areas of application

- Residential installations
- Commercial and industrial installations
- Utility installations

### Product benefits

- 10 years of product guarantee
- Built-in color LCD touchscreen next to buttons
- Supports storing energy directly from a diesel generator
- Compatible with many energy storage systems manufacturers
- Possible selection of different work modes
- Inverter is powered by the grid or the battery and is independent of the PV panels
- Charge / discharge of the energy storage system is faster than with LV version

### Product features

- Smart fan cooling
- Up to 50 A of charging/discharging current
- UPS level switching time (< 10 ms) supporting critical loads all the time

## TECHNICAL DATA

### Electrical data

|                                        |           |
|----------------------------------------|-----------|
| Output phases                          | 3-phase   |
| Max. input power DC                    | 65 kW     |
| Input voltage DC                       | 600 V     |
| MPP voltage                            | 150-850 V |
| Max. input current DC                  | 36 A      |
| Max. input current DC per string input | 18 A      |
| Max. input current DC per MPP tracker  | 36 A      |
| Number of independent MPPT inputs      | 4         |
| String connections per MPPT input      | 2         |
| Nominal output power AC                | 50 kW     |

### Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 527 mm     |
| Width          | 294 mm     |
| Height         | 894 mm     |
| Product weight | 87000.00 g |

### Additional product data

|                                |                            |
|--------------------------------|----------------------------|
| Integrated DC switch           | Yes                        |
| Connection DC for battery      | Yes                        |
| Suitable for emergency power   | Yes                        |
| Charging controller integrated | Yes                        |
| With data logging              | Yes                        |
| Wireless                       | Yes                        |
| Display                        | Standard                   |
| Ethernet                       | Yes                        |
| Integrated transformer         | No                         |
| Type of connection             | MC4-Compatible             |
| Temperature range in operation | -40...+60 °C <sup>1)</sup> |
| Ambient temperature range      | -40...+60 °C               |
| Outdoor application            | No                         |
| Type of protection             | IP65                       |
| Product color                  | White                      |

1) > 45°C derating

### Efficiency

|                    |         |
|--------------------|---------|
| Maximum efficiency | 97.60 % |
|--------------------|---------|

European efficiency

97.00 %

## EQUIPMENT / ACCESSORIES

- Mounting bracket included
- Data logger included
- Allen key included
- Supplied with user manual
- Additional battery connectors for the outlets on the inverter
- Additional DC connectors for the outlets on the inverter
- CT clamps included
- Parallel communication cable included

## DOWNLOAD DATA

| Documents and certificates                                                        |                                        | Document name                                      |
|-----------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------|
|   | User instruction / safety instructions | Three Phased Hybrid Inverter 30-50K F1 User Manual |
|   | Declarations of conformity             | CE declaration_LHT-HV inverter                     |
|  | Product family datasheet               | LHT HV 30-50K F1                                   |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                 |
|---------------|------------------------------|--------------------------------------|--------------|------------------------|
| 4099854147975 | Shipping box<br>1            | 845 mm x 765 mm x 440 mm             | 97000.00 g   | 284.43 dm <sup>3</sup> |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## References / Links

- For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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