

# PRODUCT DATASHEET

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



VALUE  
CLASS

### 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 %
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European efficiency	97.00 %
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## 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 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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