Inverter LAV2000-K10

- Efficiency > 88%
- Up to 12 parallel inverter per external controller
- Without 50 Hz transformer
- High-frequent switching
- Robust IGBT-end-stage
- Low output impedance
- 19”-plug-in case

Specifications

**General**
- Electrical safety: EN 60950, VDE 0805
- Efficiency: >88% by nominal load
- Galvanic isolation: 3.75kVDC
- EMC (emission): EN 50081-1 Curve EN 55022B
- Operating temperature: -5 to +50°C non condensing
- +50 to +70°C, 2%/K derating

**Input DC**
- LAV2000-24: 24 (19-31) VDC
- LAV2000-48/60: 48/60 (38-72) VDC
- LAV2000-110: 110 (88-132) VDC
- LAV2000-220: 220 (176-264) VDC

**Output AC**
- Voltage: 230VAC (115VAC upon request), failure tolerance +/-5%
- Frequency: 50/60 Hz, sinewave processor controlled
- Output power: 2 kVA / 1600W
- Power factor: 0.8
- Load range: 0-100%
- Crestfactor: >2.5
- Harmonic distortion: <3%

**Signals**
- LEDs for load display and PG/ON, two digit seven segment display of address

**Operation**
- push-button for address setting, (battery switch)

**Warranty**
- 24 months

**Housing**
- 19”- plug-in case
- Size: 3 HE/ 84 TE, 360 mm depth
- Weight: app. 12 kg
- Classification: IP 20
- Ventilation: internal fan

**Electrical connections**
- Connectors: Front
- Input DC: 3 high current terminal blocks 16 mm²
- Output AC: 1 Phoenix Power-Combicon 3-pole
- Bus: 2 RJ45 S-UTP

**Technical Features**
- The LED bar on the front panel reads the output power of the inverter. Each LED signals 25% nominal load.

**Parallel connection of modules**
- All inverters are connected with one another by CAT5 cables. Each inverter has its own address to identify itself on the bus to the controller.
- The two digit seven segment display on the front panel reads the current address of the particular inverter module.

**Order Code**
- e.g. LAV2000 - 48/60 - 230 - K10

### Order Code Table

<table>
<thead>
<tr>
<th>Type</th>
<th>P / VA</th>
<th>U_in / VDC</th>
<th>U_out / VAC</th>
<th>Options</th>
</tr>
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<tr>
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<td>24</td>
<td>24/50</td>
<td>220/230</td>
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