Inverter INVPL4000-Series

Efficiency > 88 %
- with parallel mode module
- without 50 Hz transformer
- high frequency control
- robust IGBT power amplifier
- low output impedance
- 19” rack

Technical Data

**General**
- Electrical safety: EN 60950, VDE 0805
- Efficiency: > 88 % at nominal load
- Electrical isolation: 3.75 kV<sub>DC</sub>
- EMC emission: EN 61000-6-3
- EMC immunity: EN 61000-6-2
- Operation temperature: -5°C to +45°C, non-condensing, +45°C to +70°C: 1.5%/K derating for DC<sub>IN</sub> = 48/60 V<sub>DC</sub> and 110 V<sub>DC</sub>

---

**Input DC**
- Voltage:
  - 48/60 (38 - 72) V<sub>DC</sub>
  - 110 (88 - 132) V<sub>DC</sub>
  - 220 (178 - 264) V<sub>DC</sub>
  - 540 (350 - 750) V<sub>DC</sub>

---

**Output AC**
- Voltage: 230 V<sub>AC</sub>, tolerance +/- 5 %
- Frequency: 50/60 Hz, sinewave processor controlled
- Output power: 4 kV<sub>A</sub> / 3200 W
- Power factor: 0.8
- Load range: 0 – 100 %
- Crest factor: ≥ 2.5
- Harmonic distortion: < 3 %

---

**Signals**
- Visual: LED green: o.k.
  - LED red: alarm
  - LCD dot matrix display (2 x 16)

---

**Electrical**
- 2 configurable, potential-free alarm contacts
- 2 configurable alarm inputs
- 2 temperature inputs (PT1000)

---

**LAN interface**
- IEEE 802.3™ compatible Ethernet Controller, 10Base-T Port, supported network protocols: IPv4, http, SNMP V1/V2c, DHCP, NTP, ICMP

---

**Operation**
- Local: Battery Switch
  - 4 push buttons for setup
- Remote: PC interface for data recall, parameter setting via LAN, Web/SNMP integrated

---

**Housing**
- Dimensions: 19” rack
- Weight: approx. 14 kg
- Protection class: IP 20
- Cooling: 2 internal, regulated fans

---

**Electrical connections**
- Connectors: Front
  - 3 terminal blocks
  - HDFK 16, 16 mm<sup>2</sup>
  - HDFK 10-HV, 10 mm<sup>2</sup>
  - Phoenix Power Combicon PC<sub>7</sub>-polig
  - MC1.5/14-GF-3,5
  - RJ45 S-UTP
- Parallel-Signal: 2 x RJ45 S-UTP

---

**Special features**
- Built-in parallel mode module to gain redundancy or to increase the power range for greater loads. Up to five inverters can be operated in parallel.

---

**Warranty**
- 24 months

---

**Order code**
- INVPL4000-48-230
- INVPL4000-110-230
- INVPL4000-220-230
- INVPL4000-540-230