



DC/AC INVERTER

UNV-3.3F

In: 48/60/110V_{DC}

Out: 230V_{AC} (3.3kVA)

KEY FEATURES

- **19", 3U**
- **Wide range DC input**
- **"Hot plug-in" system**
- **High power density**
- **CAN-Bus interface**
- **Ability for parallel operation**
- **Digital displays to notify all relevant parameters**
- **Temperature-controlled fan cooling**
- **Input over/under voltage shutdown, overload and short circuit-proof**

PRODUCT DESCRIPTION

The UNV inverter family represents modern high frequency DC to AC power conversion technology in 19" compatible mechanics. Suitable for any low to medium modular power UPS system these inverters are ideal for applications in telecommunication, industry and railroad power supplies.

Combining high frequency conversion with galvanic separation between input and output, the UNV inverter is a flexible, efficient and reliable AC power source. The possibility of parallel connection offers highest flexibility in realizing systems with increased output power and/or (n+1)-redundancy.

The UNV series is designed to operate together with the UNB series static switch and supervisory module. Remote control and communication is performed via CAN interface. Alternatively the units can be operated in stand-alone mode.

APPLICATIONS

Inverter module for AC power supply facilities with or without battery in all areas of industry, telecommunication, power generation and power distribution.



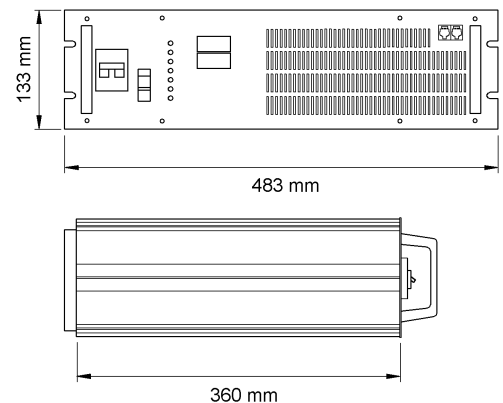
TECHNICAL DATA

Type	UNV48-3.3F	UNV60-3.3F	UNV110-3.3F
Article code	500-033-511.00	500-033-611.00	500-033-711.00
Nominal input voltage	48VDC	60VDC	108VDC
Nominal input current	62.5ADC	50.0ADC	26.7ADC
Input frequency range	DC	←	←
Input voltage range	+20/-15%	←	←
Inrush current	≤ nominal current	←	←
Overall efficiency	≥87%	←	←
Internal input fusing	MCB 1-pole	←	←
Nominal output voltage	230VAC ±0.5% (±5% at parallel operation), sinusoidal		
Nominal output current	14.35A	←	←
Nominal output power	3300VA (cos phi= 0,8)	←	←
Overload capability	130% for 10 seconds	←	←
Output frequency	50 or 60Hz programmable	←	←
Synchronization range	45- 65Hz	←	←
Accuracy	±0.5% static	←	←
Recovery time	< 0.3 ms at load transients 10%- 90%- 10%		
Short circuit protection	Continuously short circuit proof, 3 x Inom for approx. 2.5 sec.		
Parallel operation	Max. 10 pieces, load sharing app. 5% Inom		
THD/Crest factor	≤ 2% at linear load/≤ 3	←	←
Power factor range	0.5 ind. - 1 - 0.5 cap.	←	←
LED signalling	Standby, Vout, Vin>, Vin<, overload, overtemperature, general fault		
Electronic protection	Mechanically coupled input and output MCB, input undervoltage shut down, input overvoltage shut down, overtemperature shut down, overload / short circuit shut down		
External synchronization	Parallel operation and three-phase systems without additional components or specified master		
Remote signals	Relay contact „General Fault“	←	←
Digital display	2 x 3 digits, output voltage; output current; frequency, input voltage, input current, temperature, effective power, reactive power, cos phi		
Microprocessor control	Programmable monitoring and protection for all system parameters		
Communication	CAN-Bus interface for communication with static bypass switch UNB		
Ambient temperature	Operation: 0°C to +45°C (+40°C fitted into cabinet), storage: -30°C to +50°C		
Climatic conditions	IEC 721-3-3 class 3K3/3Z1/3B1/3C2/3S2/3M2		
Max. installation altitude	≤1500m	←	←
Audible noise	≤45dB (A) at 1 m distance	←	←
Construction	19", 3U, rear side connectors		
Dimensions (W/H/D)	483/133/360mm	←	←
Weight	approx. 27kg	←	←
Minimum installation depth	440mm ex. 19" frame	←	←
Cooling	Speed-controlled fan with overtemperature monitoring		
Type of enclosure / Protection class	IP20 (mech.); 1 acc. to EN 60950 (electr.)		
Surfaces	Front panel: powder coating RAL 7035, black imprint; constructive parts: anodized metal		
Compliance to safety standards	EN 60950-1, VDE 0100 part 410, VDE 0110, EN 50178, EN 60146		
Compliance to EMC standards/CE conformity	EN 55011, EN 55022 class „B“, EN 61000- 4 part 2- 5 /yes		

OPTIONS

Article	Article Code
Mounting set for 19" cabinets	880-MEC-MKT.01

DIMENSIONS



DS_UNV3.3F_2007_E_R03 - Subject to change without notice - Eltek Valere Industrial GmbH

Eltek Valere Industrial GmbH
 Schillerstrasse 16
 D-32052 Herford
 Tel: +49 52 21 17 08 200
 info.industrial@eltekvalere.com
 www.eltekvalere.com

Finland
 Eltek Energy Oy
 Tel: +35 820 779 88 20
France
 Eltek - SFEE SA
 Tel: +33 562 340 930
Germany
 Eltek Valere Industrial GmbH
 Tel: +49 52 21 17 08 200
 Eltek Valere Deutschl. GmbH
 Tel: +49 694 2002 0

Norway
 Eltek Valere AS
 Tel: +47 32 20 32 00
Poland
 Eltek Polska Sp. Z o.o.
 Tel: +48 914 852 440
Russia
 000 Eltek St. Petersburg
 Tel: +78 123 321 117
Slovakia
 Eltek Energy Slovakia s.r.o.
 Tel: +42 144 520 1607

Spain
 Eltek Energia S.A.
 Tel: +34 914 920 660
Sweden
 Eltek Energy AB
 Tel: +46 862 664 20
 Alab DC Systems AB
 Tel: +46 54 68 81 50
United Kingdom
 Eltek Energy (UK) Ltd
 Tel: +44 144 22 193 55

Australia
 Eltek Pacific Pty Ltd
 Tel: +61 294 794 200
Bangladesh
 Eltek Energy Pte Ltd
 Tel: +88 017 2097 097
India
 Eltek SGS Pvt Ltd
 Tel: +91 124 221 00 18
Malaysia
 Eltek Energy (M)Sdn Bhd
 Tel: +60 179 815 866/74 552

Pakistan
 Eltek Energy AS Pakistan
 Tel: +92 512 853 149
Philippines
 Eltek Energy Incorporated
 Tel: +63 291 063 55
Singapore
 Eltek Energy Pte Ltd
 Tel: +65 773 23 26
Thailand
 Eltek Energy Incorp 2005 Ltd
 Tel: +66 294 369 05

UAE
 Eltek Middle East
 Tel: +97 148 871 176
China
 Eltek Energy Technology Ltd
 Tel: +86 769 226 511 08
Hong Kong
 Eltek Energy Ltd
 Tel: +85 228 982 689
Brazil
 Eltek Sistemas de Energia
 Tel: +55 116 487 56 56

Colombia
 Eltek Energy LLC
 Tel: +57 162 216 91
USA
 Eltek Energy LLC
 Tel: +18 154 599 100
Mexico
 Eltek Energy International
 Tel: +52 55 53 74 1842
Peru
 Eltek Energy de Peru SRL
 Tel: +51 142 192 71