

### | General description:

Modular, single-phase FUO 230/1.5 inverters with a rated power output of 1,5kVA are intended for convert direct current to alternating current in the parallel mode. FUO inverter uses latest inverter technology providing superior high efficiency in a compact size.

The inverter offers EPC (Enhanced Power Conversion) mode, where energy from the AC mains is buffered and then converted to alternating voltage output. This mode is characterized by: very high efficiency, sinusoidal current from mains and zero switching time.

EPC mode offers one more savings - lower necessary DC power supply system. DC power supply system serves only to recharge the battery with a capacity necessary to provide required back-up time. When AC mains is present loads are supplied from energy coming from AC mains.

Due to innovative technology the FUO series is an ideal solution for telecom, IT and industrial applications. The high power density modules: 4x1500VA are packed into a compact case (2U, 19").

The AC-to-AC conversion isolates the AC output from the AC input and features a double filtering function. The voltage supplied to the critical load is a pure sine despite all the disturbances (harmonics, surges, glitches) usually carried by the grid.

### | Application:

- + IT network systems.

### | Features:

- + true sine wave output (THD <3%);
- + very high efficiency: up to 95%;
- + compact design;
- + wide temperature operating range;
- + parallel operation with current share and synchronization (up to 32 units);
- + configurable for being used as 3-Phase source;
- + LED indication of operation status;
- + output voltage regulation;
- + easy installation of inverter module (replacement or extension) during normal operation status (hot-swap);
- + fully digital controlled (CAN link);
- + immunity to electromagnetic interferences.



### Basic parameters:

#### Output parameters:

Nominal output power	VA	1500
Output power (resistive load)	W	1200
Overload capacity	-	110% permanent 150% 15seconds
AC voltage	Vac	230
AC voltage range	-	150 ÷ 265 (adjustable)
Frequency	Hz	50...60
Frequency accuracy	-	0,03% (50-60Hz)
Crest factor at nominal power	-	2,8
THD	-	<3% (resistive load)

#### Input parameters:

Nominal AC voltage	Vac	230
AC voltage range	Vac	150 ÷ 265
Power factor	-	>0,99
Frequency (selectable)	Hz	50 ÷ 60
Nominal DC voltage	Vdc	48
DC voltage range	Vdc	40 ~ 58
Nominal DC current	Adc	34A @40Vdc
Efficiency	-	95% (EPC mode) 91% (on-line mode)
Voltage ripple	mV	<2

#### General data:

Range of ambient temperature	°C	-20 ~ +50
Humidity	-	95%, non-condensing
Cooling	-	forced, fans
EMC (immunity)	-	EN 61000-4-2 / EN 61000-4-3 / EN 61000-4-4 / EN 61000-4-5 / EN 61000-4-6 / EN 61000-4-8
EMC (emission)	-	CISPR22 (B)
Safety	-	IEC 60950 / EN 62040-1 / EN 62040-2
Dimensions (HxWxD)	mm	2U x 103 x 267
Weight	kg	2,3
RoHS	-	compliant

#### Signaling & supervision:

Display	-	Synoptic LED
Alarms output	-	Dry contacts on shelf

