

 MICROTEC	R&D Department		
MANUAL	Microtec - Inverter 10 kVA	Date: 18/06/2020	Page 1 of 2
Written by: L. Micheli	Last revision:1.00 (18-06-2020)		

DESCRIPTION OF MODELS

10kVA inverters are available in “Open Version” (without enclosure) and “Box Version”.
 Open version are suitable to be inserted directly inside a generator box with engine and alternator.
 Box version are suitable where is not possible or useful to have a complete generator inside a box.
 It is possible to connect the output of two inverters in parallel (via an external synchronism cable) to obtain double power.

SPECIFICATIONS

Storage temperature		-20...+55°C	
Operating temperature		-10...+40°C	
Humidity		5...85% without condensation	
Altitude		Max. 2000m	
Sealing protection		IP21	
Dimension L x W x D - Weight	OPEN VERSION	320 x 225 x 140 mm	10.0 kg
	BOX VERSION	366 x 285 x 160 mm	12.0 kg

Model	Continuous Power	Input Voltage (line to line)	Input Frequency	Continuous Output Current	Limited Time Power	Maximum Output Current	Output Voltage	Air Flow Speed @ T ≤ 40°C
10kw open 230V	10kVA	3*260..450 Vrms DC link = 410V	200...500Hz	44Arms	20kVA 1s	125Apk - 250ms 75Apk - 10s	200...240V AC 100...120V AC	8m/s
10kw box 230V	10kVA	3*260..450 Vrms DC link = 410V	200...500Hz	44Arms	20kVA 1s	125Apk - 250ms 75Apk - 10s	200...240V AC 100...120V AC	Internal

DC-LINK and PMG alternator

Voltage generation start after proper DCbus charging by external voltage source (PMG).

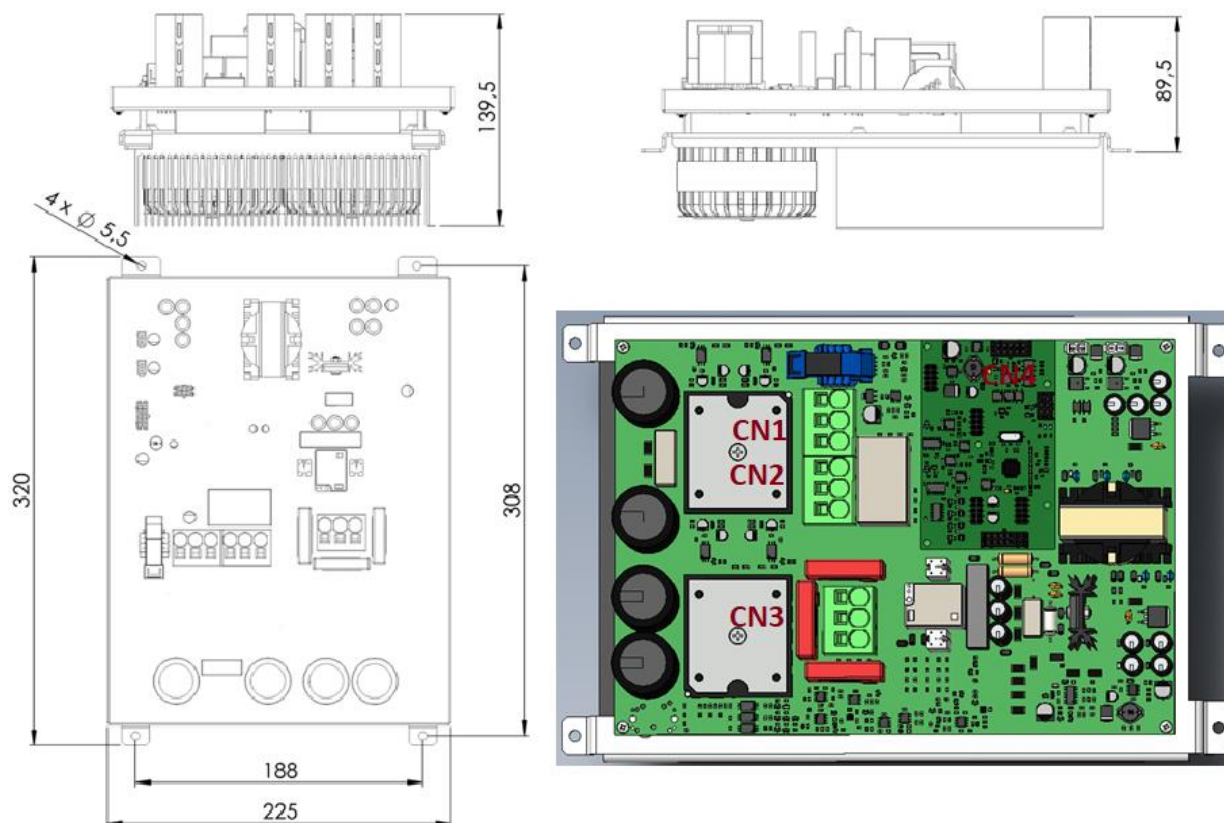
230V – version

Nominal DCbus voltage is 410Vdc and 340Vdc is required to start output generation.
 290Vrms line to line are required to guarantee a stable output voltage AC (nominal voltage at full load).
 The power limit is set in current; you can adjust the output voltage between 210 – 240 volts or 105 – 120 volts (HALF POWER).

	Not exceed 450Vrms phase to phase for input voltage in any case
	Not exceed 500Hz for input voltage in any case

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10kVA OPEN VERSION



10kVA BOX VERSION

