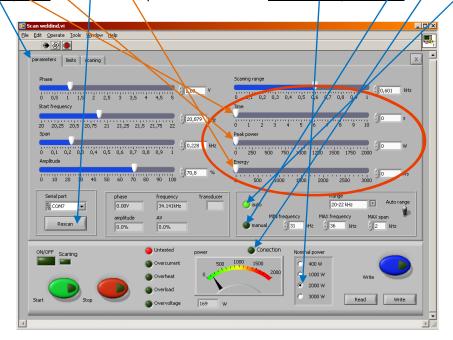
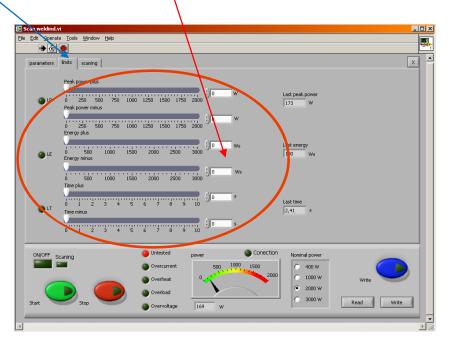
## WELDING GENERATOR OPERATING IN A CONTINUOUS MODE

SETTING & SCANNING example for 20 kHz welding converter (2 kW)

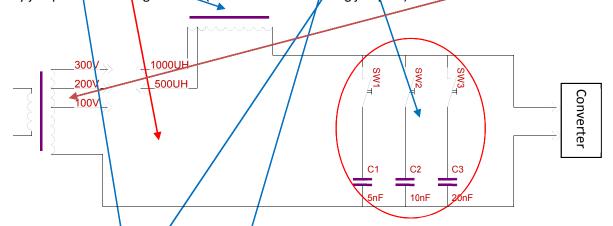
- -Install all necessary Lab View software (read the manual for welding generators).
- -Activate our Lab View software: "welding scan.exe" (or "MPIwelding.exe")
- -First Tab (parameters):
- -Select proper <u>Serial port (Rescan)</u>. Verify that connection to your PC is activated (<u>small green light</u> "Connection" starts blinking).
- -Set <u>Time</u>, <u>Peak power</u> and <u>Energy</u> to "0"
- -Select "Frequency Range", where is expected that transducer will operate (manual or automatic).
- -Set "Nominal power" to what correspond to hardware in this example 2000W



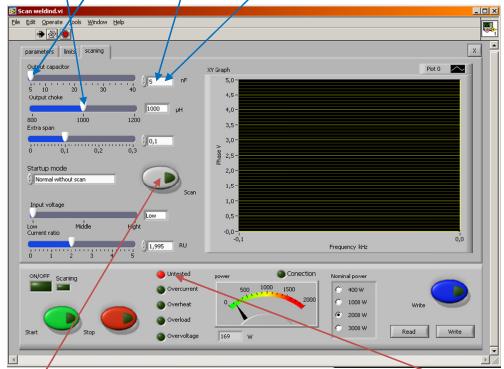
-<u>Second Tab</u> (limits): <u>Set all limits also to "0"</u>. This is our software convention to initiate continuous mode.



-Always stop the generator before changing "<u>Output capacitor</u>" (<u>third Tab</u>)— see below the block diagram of the <u>output stage of generator</u>. <u>Output capacitors</u> are selected in all type of generators (400, 1000, 2000, 3000 W) from Lab View software <u>with slider</u>. The preferred value of <u>Output voltage</u> and <u>Compensating inductance</u> are selected from the software (2000 and 3000W generators only) or by jumpers inside the generator (older versions are using jumpers).



-Before Scanning set the output capacitor to minimum (5nF) with the slider in top left corner (third Tab).



- -Set/or select with jumpers the output voltage to minimum 100V (first time, for untested converter) -Set/or select with jumpers the Compensating inductance to 1000uH or 500uH relative to resonant frequency of ultrasonic converter (see complete user manual chapter **Output capacitor selection**)
- -Make **SCan** procedure (see the user manual chapter: **AMMM & Welding Ultrasonic Power** Supplies Examples of proper selection of operating frequency ranges (during Scanning)).
- -Slowly change (increase) the "<u>OUTPUT CAPACITOR</u>", "<u>OUTPUT VOLTAGE</u>" and "<u>COMPENSATING INDUCTANCE</u>", to obtain the best operating conditions and automatic power and phase regulation (as explained in the user manual).

NOW YOUR GENERATOR IS READY FOR CONTINIOUS OPERATION.