f electric arc character	
TIG welding»	isues and
s; it does not	with metals and
·	
the material of non-co	onsumable electrode. The
, and has	thermal emission.
	·
an guarantee steady-state	e arc under TIG welding.
	× 5
-•	
2	
	tuin
	s; it does not the material of non-co , and has an guarantee steady-state + 1 2 + 1

Schematic circuit of the IST-125 inverter



_____ current which comes to input terminal of thyristor rectifier, is transformed to _____ current, then – to the _____ current in thyristor converter, later the current is again rectified by the outlet rectifier to ______ current and comes to output terminal of inverter.

Arc length, L, mm	1	2	3		4		5	
Arc voltage, U, V								
Current I, A								
		-						
Current, I, A	5	10	20	3	30	40		50
Voltage, U, V (L=2mm)								
Voltage, U, V (L=5mm)								

Measured results to plot the output characteristic slope of IST-125

Sum of anode voltage drop and cathode voltage drop, U_a+U_{κ} = _____

Conclusions: _____

Instructor's signature _____

Rating _____