

TOM III SWZ

Detailed Specification of the Subject of the Order

The subject of the contract is the purchase of the following elements: Solid State M100-i three-phase magnetron modulator 1pcs. with digitizer board 3pcs.

I Technical parameters:

Three-phase magnetron modulator M100-I Solid State 1pcs	
	Required parameter
Magnetron RF peak power:	min 3MW
Modulator type	„Solid state”
Modulator peak power:	Min. 6MW
Modulator average power:	Min. 7.5kW, Power into Magnetron
Pulse voltage	30-52kV
Pulse current	30-120A
Modulator voltage stability	$\leq 0,4\%$
Top flatness	$< \pm 2\%$
Pulse repetition frequency range	1-500Hz, Subject to max average power
Pulse length	0.5-5.0 μ s, Subject to max average power
Rate of voltage rise	80-120kV/ μ s
Control interface	Ethernet
Cooling	Water, Temp 15-30 °C
Power supply	400VAC $\pm 10\%$, 50Hz
Additional functions	automatic reduction of filament current with an increase in average magnetron power (e.g. Run Back function)
	High voltage cable – min. 2m including connectors
Weight	<150kg
Digitizer Board 3pcs	
Compatibility	M100-I
Analog channel inputs	CT,CVD,RF forward I reflected power

II Documents:

Document type	Required
Declaration of conformity to CE mark	YES
Manual	YES
Final inspection protocol	YES

III Training:

Type of training	Required
The ordering party requires the necessary remote consultation in the start-up of the installation and operation of the device	YES

IV Delivery terms:

- FCA (Incoterms 2020) – in case of foreign supplier;
- The cost of transport is covered by the Orderer – in case of domestic seller.
- Required completion date max. 6 months

V Pickup:

- after delivery there is a quantitative reception (on the basis of the Acceptance protocol)
- after installation, the operation and performance will be checked,
- from each receipt, acceptance protocols shall be drawn up containing any arrangements made in their course.

VI Warranty conditions:

- The Orderer requires a guarantee for a period of min. 12 months from the date Acceptance protocol (reception).
- The Contractor is obliged to remove at his own expense any defects found within the period specified by the Ordering Party. Defects in the devices will be cleared at the place of use. In case of need to transport the Device or part of it to remove the defect, the transport will take place at the contractor's expense.
- Notification of defects will be made in writing or to the e-mail address.
- The Contractor's response time to the Ordering Party's notification shall not exceed 7 days. The reaction means diagnosing the reported defect and specifying the period necessary for its removal, not more than 14 days.
- The device notified by the Ordering Party to recede the defect before the warranty period is subject to repair under the conditions described above.
- The duration of the warranty is extended each time by the duration of the defect, that is, the time calculated from the date of notification of the defect by the Ordering Party to the date of removal of the defect. Moreover, once the defect has been rectified, the warranty period for the parts mentioned shall run again.