



72 kW, 915 MHz MICROWAVE GENERATOR

Ref: GLP720KSM56T400AP3IR

The GLP720KSM56T400AP3IR is a continuous wave microwave generator consisting of 4 switch mode power supplies and a power head installed in a single cabinet. The measurement of the reflected power is done using either an isolator. A PLC drives simultaneously the magnetron anodic power, electromagnet current and filament voltage. The result is a very low power setting possibility (5 kW), maximum efficiency, reduced ripple and increased magnetron life time.

SAIREM's built-in Automatic Restart Function (ARF) avoids the total shutdown of the generator during a process if accidentally the magnetron switches off (moding).



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Presentation	One cabinet generator with external isolator, HV switch mode power supply ($\eta > 92\%$), electromagnet switch mode supply, filament control for soft start, voltage regulation and anti-moding function. Air / water exchanger integrated, IP 45.
Frequency	915 MHz \pm 10 MHz or 896 MHz \pm 10 MHz (to be specified); central frequency is imposed by the magnetron.
Output power	Adjustable from 5 to 72 kW.
Power stability, ripple	Better than 1 % between 5 kW and 72 kW, ripple \pm 2 % at full output power.
Rise & fall times	10 ms in standard KSM version; 1 to 3 ms if KIP (pulsed) version.
HMI Display	7" colour touch screen digital display, all controls & functions accessible, Pro-Face PLC, fault history...
Operating mode	Continuous, pulse (KIP), plasma starting, ramp, timer, ARF system
Maximum SWR	30 kW RP (reflected power) any phase by forward power limitation or stop by fault (to be chosen from menu). The limit is water flow capability. Without isolator version: 5 kW max. with stop by fault.
Remote control	CANopen, Profibus or Ethernet Modbus
Safety interlock	Safety relay, emergency stop...
Mains	380/415 V, 50 Hz or 60 Hz, 3 phase + earth (3 x 440 V on demand) Consumption 95 kVA at full power.
Microwave output	WR975, flange CPR 975 (see position on drawing)
Sizes, weight	See drawing, weight 620 kg with isolator.
Cooling	Water cooling, exchanger air / water inside cabinet. Water 80 L/min @ 4 bars, pressure max. 6 bars, water inlet temperature 18 °C < θ < 24 °C, with 40 kW cooling capacity (with permanent reflected power of 10 kW). A chiller is quoted in option.

