

MRI Service Tools

Designed for the
Solution 



Magnet Power Supply

Voyager

First Multivendor Magnet
Power Supply

EC  **HO**[®]

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μ P controlled programmable power supply designed to ramp different magnet types according to OEM specifications. With unique automated mode feature, Voyager can follow pre-loaded ramp profiles. This option is preventing user mistakes during Ramp Up and Ramp Down.

Voyager doesn't communicate to MRI system electronics. Instead, it controls and commands all magnet parameters through magnet turret connectors. Heater currents, FCL temperatures, magnet pressure and similar interlock parameters are all controlled by the software. This unique property allows to test and ramp the magnets stand alone.

Voyager is based on 1000A power supply designed to ramp MRI Magnets. Unique industrial touch screen user interface allows user to select magnet type, expert or automated mode and operations (Ramp to Field, Ramp to Zero, Field Adjustment). Integrated accelerator module reduces the ramp down time and avoid extra helium loss. Thanks to VNC connection to make possible remote connection for diagnostic, training and also for ramp operations .

Multivendor

Unique multivendor design allows user to perform ramp operation on most known OEM magnets.

Accelerator

Build in accelerator minimize the ramp down time both on 1.5T and 3T magnets.

Programmable

Programmable architecture lets us upgrade the unit for the new magnets with minimum hardware interaction.

User Interface

Easy to use 10" touch screen and graphical user interface makes the difference. It is as easy as clicking buttons.

Remote Connections

Build in VNC remote connection allows remote ramp operations, diagnostics and trainings.

Compatibility List

Siemens Magnet Type	Phillips Magnet Type	GE Magnet Type	Canon Magnet Type
OR60	Flint 1.0T	SIV / SV Fixed	TN150
OR70	Flint 1.5T	LCC YR Series	OR76
OR92	HFO 1.0T	LCC R/RA Mobile	OR200
OR93	Zebra 1.5T	LCC R/RA Fixed	
OR97	F2000	LCC RD Series	
OR98	Ludwig 1.5T	MR450 LCC R	
OR99	Rex XR 1.5T	MR450w HM	
OR103	Rex 3.0T	MR750w UA	
OR105	Mozart 3.0T	LCC300 W/WB	
OR122			

Specifications

Input voltage / freq	-	208VAC or 400VAC (50/60Hz)
No of Phase	-	3 Phase + N + Protective Ground
Dropout voltage	V	175V / 355V
Input current	A	16A max
Power Factor	-	0.88 Passive
Leakage current	mA	3.5 max
Input protection	-	Circuit Braker
Phase Imbalance	%	< %5 on Three Phase Input
Max. line regulation c.v	-	0.1% of FS from Io min. to Io max
Max. line regulation c.c	-	0.1% of FS from Vo min. to Vo max
Max. load regulation c.v	-	0.1% of FS from Io min. to Io max
Max. load regulation c.c	-	0.1% of FS from Vo min. to Vo max
Temp. drift c.v	-	+/-0.05% of Full Scale over 9 hours after 30min. warm up. Constant line, load and temperature.
Temp. drift c.c	-	+/-0.05% of Full Scale over 9 hours after 30min. warm up. Constant line, load and temperature.
Stability c.v	PPM/C	200 (0.02% Full Scale)/Degree C
Stability c.c	PPM/C	200 (0.03% Full Scale)/Degree C
Output noise p-p c.v	mV	60
Ripple r.m.s. c.v	mV	20
Ripple 10kW c.c	mA	%0.5
OCP	%	0-100
OCP Type	-	Constant current
Short circuit protection	-	Yes
Foldback protection	-	Output shut down
OVP Type	-	Inverter shut-down
OVP trip point	V	0.05 x Rated Output Voltage
Over temp protection	-	Shut down when internal temperature exceeds safe operating levels.
Phase Loss Protection	-	Yes
Cooling		Fan driven, air from Front to Rear
Weight	Kg	160
Dimensions	WxDxH (mm)	580x1000x950