



POWER GENIUS XL™ /



POWER GENIUS XL 4A Inside

POWER GENIUS XL™

THERE'S POWER. AND THEN THERE'S POWER.

Chances are, your existing radio does everything promised and then some. It functions flawlessly and performs at a level with little left to be desired. But one can never have too much power. Which is where the Power Genius XL™ comes into play. The Power Genius XL takes your perfectly good radio and amplifies its performance exponentially. It's exceptionally clean and delivers full legal-limit power at 100% ICAS duty cycle. And it's the only fully SO2R-capable amplifier on the market with 70dB nominal isolation between transceiver inputs. Like our entire product lineup, it is monitored and automated through an integral Ethernet connection. It takes your existing radio and turns it into a legal-limit beast.



PLUG AND PLAY AND TAKE ON THE PLANET.

The Power Genius XL is network capable with an Ethernet connection. This means it completely and seamlessly integrates with any FLEX-6000™ Series radio. And the fully integrated meters and controls allow the amp to be controlled from SmartSDR™, whether on SmartSDR for Windows, iOS or your Maestro™. All through your network. When paired with a FLEX 6000 Series radio, it's a plug & play SO2R that will greatly reduce your station costs. Yes, it's really that simple.



 42.39°N, 18.62°E

1500W OF POWER FROM THE COMFORT OF YOUR OWN WHEREVER.

Without trying to oversimplify the genius of the Power Genius XL, it's an amplifier that you literally just turn on and operate from anywhere. Fully integrated with FlexRadio's SmartLink® Remote, you have on-the-go amplified power, no matter where you are. This means all controls and meters are accessible from anywhere, provided you have an Internet connection.

FIRST EVER FEATURES MEAN YOU'RE WELCOME.

There's new to you and there's first ever. The Power Genius XL is pleased to have both. Two of the first ever features we've built into this amplifier include the MEffA system and a vapor chamber cooling system. MEffA™ system (Maximum Efficiency Algorithm) controls efficiency as function of output power. MEffA is a unique technique that changes the DC voltage level to the PA in a manner to match the envelope of the exciting RF in order to yield the most efficiency. And vapor chamber cooling — the first of this in a HAM radio amplifier — is air-cooled with four fans to manage temperatures in three distinct and independent zones internal to the amp.

PA SPECIFICATIONS

RF Power Output	1500W (ICAS)
Exciter Drive Level	50W Typical (US version)
Transistors	MRF1K50H x 2
Exciter Inputs	SO-239 x 2
Antenna Outputs	SO-239 x 2
Antenna Impedance	50 Ohm Unbalanced
Cooling	Thermally Controlled Fans

MECHANICAL

Dimensions	5"H x 13"W x 17"D / 15cm x 35cm x 50cm
Weight	37.4 lbs (17kg)
Operating Temp	-25°C to +40°C

ELECTRICAL

Input Voltage*	90–250VAC, 50/60 Hz
Power Supply	Modular Internal Switching
Current	20A Minimum for Full Power

CONNECTIONS

Power (See Electrical)

A and B Drive

A and B Output

A and B -60dBc Sample Port

A and B PTT In

A and B PTT Out

A and B CAT

A and B CI-V

A and B Band Data IN

LAN connection



* Maximum RF power output achieved using 220 VAC



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