Flex power genius

Item added to cart. PG XL is the cleanest amplifer with exceptional spurious performance achieved by its diplexed filters. Thanks to smart cooling, MEffA, real time drive settings and fan speed control PG XL has best thermal performance and lowest fan noise possible. It has 70dB nominal isolation between exciter inputs. When connected to a FLEX transceiver, band selection is fully automated through the Ethernet connection. We build in a large touch screen display to enable easy future upgrades, as we plan to have constant improvement and add new funcionalities like direct control of Tuner Genius, new functions for integration with radios or peripherals etc. Most Amateur RF amplifiers provide output filtering to maintain spectral purity regulatory compliance by suppressing emissions which can occur outside the desired operating frequency. Most are low pass designs that deal effectively with undesirable harmonic by-products that can occur for a variety of reasons during the amplification process. The Harmonic Load in PGXL is a Watt resistive dummy load, mounted on a dedicated heat sink, with a discrete temperature sensor and fan controller. The Power Supply is a self-contained module that monitors related component temperatures and adjusts the speed of its cooling fan s accordingly. The three zones are managed by independent fan sets that have their fan speeds dynamically adjusted according to the temperature measured in the area they are intended to cool. Independent of cooling strategy, the unit will always run the cooling fans at speeds necessary to protect the amplifier. What is MEffA? Unkey the amplifier then re-key. You may note that the amplifier drops the Drain Voltage and see the corresponding drop in output level. This is MEffA working. Increase drive to re-establish the desired output level. Then repeat the process starting with step 2 until the desired output power is achieved for every time keyed. You are now ready to operate. PG XL is designed to be mechanically robust. It is certainly the most robust amplifier on the market today. The front panel is made from die-casted aluminum and features a handle making it very practical for moving and manipulating. Some electronics as well as the display are built in to the handle. The back panel is also made from die-casted aluminum for extra protection and stability. Extensions on the back panel corners protect the amplifier as well as the connectors from direct hits in case of a fall or rough handling. Log in. By creating an account you will be able to shop faster, be up to date on an order's status, and keep track of the orders you have previously made. Log in Register. Remember me. 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. The PA efficiency is not constant at a fixed DC level but varies with the envelope of the signal. This makes PG XL the cleanest amplifier on the market. Advanced vapor chamber cooling system, first of this in a HAM radio amplifier. Additionally, due to an improvement in material technology we dramatically improved the thermal conductivity. Special features Harmonic Load Most Amateur RF amplifiers provide output filtering to maintain spectral purity regulatory compliance by suppressing emissions which can occur outside the desired operating frequency. The PGXL is air-cooled with four fans to manage temperature in three distinct and independent zones internal to the amp. Production of PGXL is organized to provide highest quality. Once assembled, sub parts are calibrated and tested with dedicated software. Before shipping, every single PGXL is passing rigorous test of robustness, running full power with very high duty cycle, on all band for about half hour in total. All this tests are automated and results are stored. 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 amplifier comes into play. The Power Genius XL takes your perfectly good radio and amplifies its performance exponentially. Like our entire product lineup, it is monitored and automated through an integrated Ethernet connection. It takes your existing radio and turns it into a legal-limit beast. All through your network. While increasing power is the primary reason for the existence of the Power Genius XL, there are other benefits that come with it. Frustration-free contesting goes hand-in-hand with reducing the cost and complexity of your setup. Read the QST review here. Maximun of W when using the VAC or less. FlexRadio Systems does not charge your credit card until your order ships, but we do pre-authorize the full purchase price at the time you place your online order. If you choose to use PayPal as your payment method, your account will be charged immediately. In these cases, you may either contact your credit card company and negotiate a different daily purchase limit -OR- you can call FlexRadio Systems Sales department at ext 1 to place your order over the phone where we will not pre-authorize order payment until time of shipment. By using this website you agree to our updated Conditions of Use and consent to the collection and use of your personal information as described in our updated Privacy Notice , which includes the categories of data we collect and information about your preferences and rights. Community Announcement. All rights reserved. PowerGenius XL. Features Amplifier Feature Highlights: 1. Customers are urged to work with their electrician to finalize AC power delivery. Specs Weight: oz Width: 24 in Depth: 19

in Height: 12 in. Quick Start Guide pdf. User Guide pdf. Brochure pdf. Videos See it in action. Unterminated AC Power Cable. Quick Start Guide. Build your station. The prototype FLEX tuner has three coax connectors. Have not seen that question posed or answered. The unit was one of their "test mules" prettied up as a "lash up" for the show according to Ranko. BTW there was a fourth control - the red "stick" button that was brought up through the cover and signs of possibly a few more that were not brought out on this show display unit. Hoping that Ranko 4o3a will post more information and pictures of a unit closer to the ones we will see with the PowerGeniusXLs when they deliver. I doubt that there is much consistency among most published autotuner specs, so comparing them may be apples and oranges. I suspect some claimed SWR numbers are "best case", and the real SWR limits could be lower depending on the complex impedance encountered, frequency, power level, etc. Thanks Tim and Rial Rich Text Editor. To edit a paragraph's style, hit tab to get to the paragraph menu. From there you will be able to pick one style. Nothing defaults to paragraph. An inline formatting menu will show up when you select text. Hit tab to get into that menu. Some elements, such as rich link embeds, images, loading indicators, and error messages may get inserted into the editor. You may navigate to these using the arrow keys inside of the editor and delete them with the delete or backspace key. It looks like you're new here. If you want to get involved, click one of these buttons! Welcome to the new FlexRadio Community! Please review the new Community Rules and other important new Community information on the Message Board. If you are having a problem, please check the Help Center for known solutions. Need technical support from FlexRadio? It's as simple as Creating a HelpDesk ticket. SmartSDR v3. SmartSDR v2. SmartSDR v1. Power Genius XL Firmware v3. Power Genius XL Utility v2. May edited August in Tuner Genius. Has the tuner debuted at the Flex Booth. If yes how about a pic. Thanks Rich - N5ZC. May edited May Exhibition prototype shown. Ranko said it will be controlled via the amp's touchscreen. Any pics of the Tuner? When I get some connectivity I'll put one up. Thanks, Steve! Sounds great Steve, thank you! How wide ranging is this tuner? May edited November Lash up for the show. Final unit will differ. May edited March My understanding is the tuner will now come with the Power Genius ordered in Tim VE6SH. May edited December Tim - I understood that ones delivered in would include the tuner. The kit to remote the tuner is an optional extra. Larry - Ranko said it would fit behind the tuner rather than under it. I should have said delivered. And yes i understood it would fit behind the amp with an option to remote. May edited October What's with the 3 knobs sticking up towards the back of the unit? Rich - N5ZC. June edited January June edited June I don't recall if they were labeled. Would look to the production unit spec for connectivity. June edited July The only bummer about the tuner is it will only tune SWR from what I have been told. Burch - That was the rating for the amp Without the Tuner. I think Ranko had quite a number circa with the tuner inline. Wish I had a better 80m and m antenna option, as I need a tuner only for those two bands due to compromised antenna sizes. June edited October I think I read the tuner will handle and the amp will handle 2. Correct - my typo mistake as and 2. Thanks for catching my mistake. I emailed Flex sales on May 31st and asked about the tuner and they said I hope that is not correct but that's what I was told. I still have the email I received. One in, two out. June edited November Tim, can you confirm the SWR range for the tuner? The other thread said but when I emailed Flex sales they said So if is the rating at 2kw, Maybe its a bit better at 1. The new elecraft amp includes a tuner but it is only at watts. Their brochure says the range is better at lower power levels so maybe that is the case with the Power Genius. I guess I am spoiled with my cheap MFJ auto tuner as it has a range of ohms. It's good to watts. Of course it took me two tries to get one that works! Once you start presenting the tuner with really "squirrely" reactance, then that is when things get really interesting. With a "quantized" tuner as opposed to variable capacitance and impedance if you are in between step values, you may not get a good match. There's only so much you can do with toroidal inductors before they begin to saturate. At some point you have to go to roller inductors and that is more expensive and complicated motors. So most tuners will be Will a weather-proof enclosure be made available for the tuner? Ned, K1NJ. Varistor Member. I really don't understand why would anyone prioritize a fairly expensive amplifier before proper antennas and matching at the feed point. Can some please explain why you would not want to build good antennas and instead would rather use a tuner? I get it that many hams have significant space restrictions, but even then there are plenty of good options for single or multi-band resonant antennas that can deliver SWR under 2. A well built OCF- a compromise antenna by all standards- can do better than Howdy, Stranger! Sign In Register. New Discussion Ask a Question. Categories 12 Message Board 65 Community Topics 1. It looks like you're new here. If you want to get involved, click one of these buttons! Welcome to the new FlexRadio Community! Please review the new Community Rules and other important new Community information on the Message Board. 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for known solutions. Need technical support from FlexRadio? It's as simple as Creating a HelpDesk ticket. SmartSDR v3. SmartSDR v2. SmartSDR v1. Power Genius XL Firmware v3. Power Genius XL Utility v2. Discussions related to the Tuner Genius, the high power antenna tuner and companion product for the Power Genius XL amplifier should be created in this category. New Discussion Ask a Question. Discussion List Discussion. Any update on Tuner Genius? W2PP February KF4HR February 5. Tuner Genius and SmartLink 1 2. Asher - K0AU September W2PP February 5. Tuner Genius integration with Power Genius Answered. AC9S January KD0RC January It's been 3 years now! Where is my Automatic Tuner that was supposed to come with my Genius Amp? Accepted Answer. DrJ December Patrick January K3ZJ - Dave May KF4HR January Tuner Genius and a doublet antenna. Mr Radio November Ignacy December Tuner Genius now has a webpage. Magnus June KF4HR June Tuner Genius Speculation. KF4HR March Tuner Genius update Answered. Steve K9ZW November Burt Fisher October Tom April Reg January Richard March PowerGenius Tuner 1 2 Answered. Rich - N5ZC May David Marotti March Power genius tuner configuration Answered. Mark Erbaugh July Patrick August Tuner Genius power supply Answered. Ned K1NJ July Tuner Genius Tuning Range Answered. Howdy, Stranger! Sign In Register. Categories 12 Message Board 65 Community Topics 1. Popular Tags dax 32 smartsdr 23 cat 13 audio 12 cw 11 rtty 10 smartlink 9 amplifier 9 maestro 8 api 8 mic 8 remote 8 digital modes 7 digital 7 ddutil 7 ssdr 6 antenna 5 flexcontrol 5 smartcat 5 power 5 network 5 flex 5 noise 4 display 4 flex control 4. Started By. Most Recent. When you subscribe, you receive only messages for the product you have subscribed to. You can check your current subscriptions and remove yourself from subscriptions at any time by visiting the Reviews Home page and clicking on the 'here' box under Subscriptions. If you have comments, questions, or problems with this procedure please write to the Forums Manager. This project involves a management team of volunteers who each take a topic of interest and manage it with passion. The site will be something of which everyone involved can be proud to say they were a part. Toggle navigation. Forgot Password. Reviews Home. I was hesitant to order this amp as I have not had the opportunity to have seen one in person. Once I saw how well this unit was built it soon became apparent that this is no ordinary solid state amplifier. It is built like a tank. Installation to a Flex was a breeze and this amp will serve its purpose as my remote station amplifier. The fans are noisy but show me a solid state amp that is not. Plus I am happy that I supported an American company. I will follow up on this post after some extensive use but I am very impressed and pleased with my purchase. Another great Flex product. The lack of QSK on an amplifier of this caliber and price point , regardless of its other laudable qualities, makes this a complete deal breaker. The design looks and feels like a modern piece of military equipment similar to hardware I've worked with over the years as an electrical engineer. No button arrays, miscellaneous LEDs other than the case back light for status. No other knobs or separate power supply bricks to deal with. The connection to a modern transceiver is simple but the connection to a Flex series is remarkable. Just power, coax in and out, and a LAN connection are all that's required. Manual IP setup is optional. This gives the operator the flexibility of placing the amp anywhere in the shack or in a closet or another room as long as there is adequate airflow. I added a big volt 60 amp contactor and WIFI based switch to remotely control power to the big amp. I don't like leaving it on standby when not using it. Now I can power up all my Flex equipment and tuners with a single phone app. The amp changes bands automatically and instantly follows the transceiver. It behaves more like a tube amp in that it doesn't prematurely trip unless it really senses a problem. It will produce watts on most bands. It has two distinct RF signal paths in out for two antennas and or two radios. In order to keep those 50 volt LDMOS devices cool, they use cooling fan designs similar to today's modern computer servers. They are somewhat loud if you place the amp right next to your operating position. I put mine on the floor on one side of the shack and don't notice it unless running high duty cycle transmissions. A quick check with my Siglent SVA spectrum analyzer showed a very clean signal, as good or better than most modern amps tube or solid state. It funnels undesirable RF into an onboard dummy load which dissipates the energy. A gigabit Ethernet switch is installed only one foot away from the amp, and there is no packet loss from RFI during full power transmissions on any band. After many years of tube amps including a new Alpha I finally pulled the trigger for this amp. I have been rewarded with a product I feel is 2nd to none. Simply run the provided network cable from the amp to your router and choose your radio from a list in the setup menu and you are ready. It also has provisions for all radio's other than Flex. The power output of this amp will exceed legal limit from meters. In addition at my station I have found this amp is not nervous concerning SWR up to 3. A few people have concerns about the fan noise however I don't find it a problem with me, with the amp on my desktop. See my station picture on QRZ it sits less than 18inch from me. If you are considering a solid state amp IMO this is the only one for a lifetime of

operation and super support from Flex right here in the good old USA. I have been very tough on Flex, see my review update. I had to be tough on them to take it back and they ultimately did so. The PGXL, however, is a mighty different story. First, its built like the old Alpha ETO brand stuff, like a brick on key type amp. So the mechanical side is very very good. Layout is excellent. One nit pick the on off button is on the back, but I leave it on all the time so it doesn't really matter. It draws nil in standby anyway and dims the display. Regarding hook up, that is cake and intuitive. You really don't need to read any manual to be up and running in a a few minutes. Loading the app is cake and the app finds the amp on your local net work. Flex is aware of that and has a new update pending. Its trivial anyway as the amp is RF sensing. The app is nice and very easy to read across the room. My only nit pick here is, it would be nice to have it always on top of the stack of programs, again trivial. The apo provides all the data you need and allows you to move the amp from standby to operate in a snap. Running two different radios is a delight. Saves a TON of money and the isolation between the two radios is complete. I use band pass filters of course as the antennas aren't!!!! Its beyond cool to snap back and forth between radios the amp follows immediately and instantly. Power out is as advertised on all but 20 meters where I can only get about watts, actually I think they tell you that on their web page. Fan noise, well I have had just about every amp that was made in the last 30 years. I'm a little surprised people mention it as an issue as I do not find it that bad. My Acom a was certainly louder and I didn't find that a problem. The KPA under max load over time was clearly louder and under more normal circumstances, and they way I used it, the fans were virtually never on. IN brief I just do not find the fan noise any issue at all. Full output all the time no issue at all. One hole, at least for now, is the amp unlike all the others does NOT have an antenna tuner built in. Now until they release the tuner genious this is an issue if you have high SWR antennas. You'll either need two tuners or live with it. You need a tuner for each of the outputs. For me its a non issue on most all bands except 75 meters. My antennas are all very well tuned to the frequencies of interest to me. But, if you have high SWR antennas as I said, an antenna tuner or two will be required. Over 1. The antenna genious may ship later this summer per flex and handles BOTH outputs so that will be a must have accessory down the line. Lets hope they actually ship it!!!! Frankly this is the only amp you should buy, it will last a lifetime, provide all the power your every going to need in all modes, will work RELIABLY with two different manufacturer radios, and I gather seamlessly with a Flex of any type. For DXpeditions this would be the only amp I'd want as its fairly light, surprisingly so. Peter W2PP. On balance, it is my amplifier of choice. Here I address some of the criticisms and strengths: 1. The highest speed is like having a threshing machine in the room. One important point: Fan noise is always going to be an issue with solid state amplifiers because the generated heat is very localized and has to be exhausted quickly. The PGXL does as good or better a job at flushing the heat as any solid state amp, but is somewhat louder than a comparable, well-designed vacuum tube amp. Incidentally, the front air vent is for intake air only, and does not blow in your face or contribute to the fan noise. Between transmissions the fans switch off and are dead quiet. Keep in mind also that the PGXL runs Watts output and generates more watts of heat than, e. It's a very rugged amplifier. Remote operation: Although reviewers have commented on the PGXL's remote capability, I want to make sure that really sinks in. There is no reason the PGXL has to be on your operating desk. Compare that to the front panel of a KPA The neat little LCD on the front is duplicated exactly on your computer screen. The ONLY reasons to put the amp on your operating desk are a you don't have floor or table space elsewhere, and b it looks so cool you want to show it off. The coax is the only other connection to radio. If you run SmartSDR, you'll have a new menu on your computer when the amp is running. If you're using an M or M, you'll see a new icon on the transceiver's front panel, plus a menu showing power output and other amplifier parameters. With Yaesu, Kenwood, Elecraft radios, etc. You'll need to set the delay from your transceiver the time between a key closure and the appearance of RF at the amplifier to at least 10 mSec. Note that Flex transceivers handle that delay in a completely different way from other brands. Flex radios time-shift your CW by whatever delay time your select, so that the RF never arrives at the amplifier before the amp is ready to receive it. There's never any clipping of the first dit, no matter how fast you send it. On a Flex transceiver, you can set the delay to anything. For fun, I set it at mSec and listened to my signal on another receiver. I sent "hello" at 30wpm, and waited. A second later I heard my transceiver send "hello," delayed by a second. What this means is that whatever delay you choose is pretty much irrelevant. You can't do that with any other brand, so for, e. Other CW features, like independent sidetone volume and frequency, separate headphone and speaker volume controls, adjustable AGC times, and AGC threshold, bandpass tuning, etc. Flex transceivers don't have quite as many CW bells and whistles as a K3 e. Software Design: In my opinion, the software developers at Flex are hands down the best in the industry, and the PGXL reflects this level of sophistication. Pretty much

everything is done for you. You can't damage the amplifer by choosing the wrong antenna, the wrong frequency, overdriving it, or overheating it. It's designed to withstand almost any abuse you can think of, which is why its unsurpassed for remote operation. Nits: The PGXL uses fast, German, open-frame relays, and the relays make an audible clicking sound which will bother some users. At the W power level, I don't think pin diode switching is appropriate, but I would have preferred near-silent vacuum relays. Of course if you remote the amplifier or wear headphones, like I do, the clicking is irrelevant. I am told the life expectancy of the open frame relays exceeds that of vacuum relays, but I haven't verified that. My other nit is the near lack of information about what's inside the PGXL cabinet. There is no circuit diagram provided, nor circuit description, nor even interior photographs. While there's not much point in providing information about the insides of a transceiver, which are just a collection of circuit boards, that's not the case with RF power amplifiers. By the way, the PGXL is larger than you might expect for a solid state amplifier. The depth is So whatever is inside the cabinet, there's a lot of it. I hope Flex will change their policy and be more forthcoming. The PGXL is my first solid state amplifier. It's a brute and produces W output effortlessly. I set the maximum power on my transceiver to 55W, which gives me full flexibility for power output. A lot of thought went into its design, and the more I use it, the more I like it. I purchased this amp and had to wait over a year and a half to get it. It works flawlessly with the Flex I generally agree with KF4HR's review. The size and weight are very good. Unfortunately, the fans are so loud I had never realized how quiet the Acom really is. Time Owned: 0 to 3 months. I've owned my PG-XL for about 2 months and so far it has performed flawlessly. I purchased this amp mainly for 3 reasons, 1 to have the ability to monitor the amp's status within the SmartSDR software. Because it is the only HF amplifier that I am aware of that has dual simultaneous thru-put paths, one amplified path, and one non-amplified path switchable. This allows dual antenna feeds to my Flex, through the amp, either for mapping a 2nd antenna to other Band Slices, or for the Antenna Diversity function, And 3, since the PG-XL was designed to work with the Flex series transceiver, should problems arise, I like the added benefit of being able to contact one manufacture for both the transceiver and amp. Eliminates possible multiple manufacture "finger pointing. The only connections required are RF in and out, an Ethernet connection, ground, and power. I only have 3 minor gripes: 1. And the fan speed and noise ramps up quickly during transmissions. Also the fan noise is of a higher noise frequency than other amplifiers I have used, which I find a bit bothersome. This amplifier has substantially sized openings in its lighted front panel different colored internal lighting indicates amplifier status , so fan noise also exits out the front panel. I should point out the fan noise is not so loud that it adds noise to the outgoing voice transmissions, even though my PG-XL located close to my operating position and mic. For a short term solution I am countering the fan noise with a noise canceling headsets. For the long term, unless the manufacture comes out with some modification for the fan noise different types of fans, or something? Some might ask, what are you comparing the PG-XL's fan noise to? Having Peak wattage readings would be helpful during SSB operation. It would have been nice if the manufacture added both Average and Peak power indicators to the PG-XL's display, or at least allowed the operator to switch between Average and Peak readings. My hope is a Peak Power reading feature gets added in a future software release. The main power switch is located on the rear panel of the PG-XL. There is no power switch on the front panel. It should be pointed out if the Amp is left turned on, it only draws a small amount of current in the Standby Mode, and there are net-enabled remote power switching devices that would provide a work-around for this minor inconvenience. These are certainly good amplifiers too but even with my minor gripes listed above, and being a fan of Flex transceivers, I'm glad I chose the PG-XL. The wait time to order this amp is currently considerable although Flex Radio Systems does seems to be knocking out the PG-XL backlog fairly quickly so I suspect delivery delays should eventually disappear. Bottom line, I have owned the PGXL amp for a couple of weeks now. It was expensive but I will never go back to a tube amp again. My old Ten Tec Titan worked great for many years but not having to tune every time I change bands is really nice. I have tried it on all bands but 6 so far and it works great. It interfaces flawlessly with my Flex and it also works great with my Icom The amp has a built in C-IV interface for Icom rigs and works as it should. The front touch panel shows all the relevant information band, 2 temperature readings, voltage, transmit time, etc. The amp is built for SO2R operation. There are two inputs and two outputs so you can have two radios connected with two different antennas, I haven't used it in this configuration but I can see how this would be beneficial to contesters. There are 3 fan settings normal, contest and broadcast with each setting raising the fan speeds. The fans will increase more on some bands than others. If the PA gets over 70C, the fans kick into high gear but they keep the unit cool. I don't think the fan noise is bad but noise is subjective. In stand by mode the amp is very quiet. During SSB operation, the fans usually don't ramp up much except

for prolonged transmit times running high power. This is my first SS amp so I don't have anything to compare it to but I really love this amp so far. It is expensive but you get what you pay for. Attractive Desk Top Unit. Easy computer control. Looks Terrific. Weight is such one person can handle. Great Protective Packaging. Total set up time for me was only 10 minutes. Critical in set up is properly setting transmit delay. Flex recommends 20Ms. RF Sense switching is great for the operator with a variety of transceivers in that station. More than 12 Months. There is a delay before newly submitted reviews are Approved. The delay is for new review screening and approval. The delay varies from minutes to a day or more. Before adding a new product use the "Search" tool on reviews Home page to determine if that product already exists in a category. Products for review typically should be tangible items such as radios, antennas, towers, etc. A valid product review is one where you have experience or knowledge of the product you would like to share with others. It is not a Forum for two-way exchanges, product inquiries, general discussions or complaints, help requests, product repair or modification, or customer service issues. A review should provide useful relevant opinions of a product. Reviews only stating "Its great"or "Terrible product" are not helpful without supporting information why its great or terrible. If using an anonymous eHam user ID for submitting reviews be aware of a recent court ruling regarding identity disclosure of writers of false reviews. Don't review home brewed equipment or home-brew copies of commercially made products. Reviews are limited to one review per product per reviewer. Edits will go thru the review Approval process. Do not submit a product review criticizing another review or reviewer. Review authors should be able to share their product experience and opinion without being publicly criticized. In the interest of maintaining objective product reviews for all review readers, requests to remove Approved product reviews may be declined by eHam. Customers and product users will add your product to a product category listing and write reviews when they are ready to share their product opinion. If a manufacturer would like to announce or raise awareness for their product

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